



ADDENDUM NO. 3

9 April 2020

Appoquinimink School District
Everett Meredith Middle School
Bid Package 'A'
Page 1

The bid due date has been extended.

Bids will be received until 2:00 p.m. on Tuesday, 28 April 2020. No questions from bidders will be accepted after, Tuesday, 21 April 2020.

The location for receipt of bids is Room 148 of the Appoquinimink School District, Marion Proffitt Training Center, 118 South Sixth Street, Odessa, Delaware 19730

In accordance with the active Public Health State of Emergency related to the novel coronavirus ("COVID-19"), and Social Distancing recommendations of the Delaware Department of Health and Social Services, the Appoquinimink School District will be proceeding with the following logistics plan for managing bid receipts and the subsequent public bid opening:

- 1) Physical copies of bids will be received at the Appoquinimink School District, Marion Proffitt Training Center, 118 South Sixth Street, Odessa, Delaware 19730. Bids may be hand delivered or mailed/shipped. Electronic bids will not be accepted. Bidder assumes full responsibility for timely delivery at location designated for receipt of bids. Any bids received after the stated time will be returned unopened.
- 2) School district personnel will be available to receive the bids on Tuesday, 28 April 2020, from 8am until 2pm local time. Signs will be posted at the main entrance directing bidders to the appropriate drop off location.
- 3) A public bid opening will be held immediately following the 2pm submission deadline, in the Board Room of the Marion Proffitt Training Center. Although the Appoquinimink School District is not prohibiting public presence at the bid opening, for the safety of the general public the State of Delaware guidelines for social distancing and public gatherings will be enforced. In an effort to reinforce recommended social distancing, the Appoquinimink School District strongly encourages attendees attend the bid opening via YouTube live stream at the following link:
 - a. Full link:
https://www.youtube.com/channel/UC7nnAUtcNQgyimmVOCCNiaSg/videos?view_as=public
 - b. Abbreviated Link:
bit.ly/appoyoutube
 - c. Alternative Conference Call Line:
Number: +1 (646) 558 8656
Access Code: 333 990 692
 - d. A recording of the bid opening will remain available for future access at the link above.





Note: Bid Documents obtained through the State of Delaware Government Support Services Website (bids.delaware.gov), are not for bidding purposes. Bid Documents may be viewed and downloaded at EDiS' FTP site. To obtain access to the FTP site, please submit your request via email to Jackie McKee at jmckee@ediscompany.com.

NOTICE: Attach this addendum to the project manual for this project. It modifies and becomes a part of the contract documents. Work or materials not specifically mentioned herein are to be described in the main body of the specifications and as shown on the drawings. Bidders shall acknowledge receipt of this addendum on the space provided on the Bid Form. Failure to do so may subject the bidder to disqualification.

Whenever this Addendum modifies a portion of the Project Manual added information is shown as **Bold** and deleted information is shown as ~~striketrough~~.

The contract documents for the above referenced project, dated February 21, 2020 are amended as follows:

GENERAL CLARIFICATIONS:

1. In Addendum No. 2 the following items in the narrative need to be clarified:
 - a. Under the Modifications to Specifications section, item 4.B.4, the scope item should have been 12.g, not 11.g.
 - b. Under the Modifications to Specifications section, item 4.B.5, the scope item should have been 12.i, not 11.i.

QUESTIONS AND ANSWERS:

1. See attached responses to RFI's – 3, 6, 8, 10, 14, 16, 17, 19, 23, 29 & 30.

MODIFICATIONS TO SPECIFICATIONS:

1. SECTION 003132 GEOTECHNICAL DATA

- a. Page 003132-1, Paragraph 1.B:
ADD subparagraph C:

“C. UTILITY LOCATION DATA

1. Underground utility reports and location plans from SoftDig Underground Services, Inc., dated October 29, 2019 through November 4, 2019, are included in the project manual.”
- b. INSERT the **Underground utility reports and location plans from SoftDig Underground Services, Inc., dated October 29, 2019 through November 4, 2019**, after the Geotechnical Report.





2. SECTION 011100 – SUMMARY OF WORK; make the following pen and ink changes:

a. CONTRACT A-01 – DEMOLITION

1. ADD the following items to the Equipment List issued with Addendum No. 2

EQUIPMENT	DISPOSITION	MAKE/MODEL/SERIAL	ADDITIONAL INFO
Stage Curtains	ASD to salvage	N/A	Located in Auditorium
Stage Scrims	ASD to salvage	N/A	Located in Auditorium
A/V Equipment	ASD to salvage	N/A	Located in Auditorium

b. CONTRACT A-02 SITEWORK

1. ADD the following specification to the list of Technical Specifications:

“Section 116625 Gymnasium Equipment”

2. ADD the following sentence after the first sentence of scope item no. 4:

“The exterior basketball hoops are specified in Section 116625.”

c. CONTRACT A-03 CONCRETE

1. DELETE the first sentence of scope item no. 1.a and REPLACE with the following:

“a. Provide concrete infill slab ~~at~~ **inside the** walk-in freezers and refrigerators after freezers and refrigerators have been set in place.”

2. ADD the following sentence after the first sentence of scope item no. 1.a.:

“Also grout the space between the freezers and refrigerator and the surrounding concrete.”

d. CONTRACT A-04 MASONRY

1. ADD the following new scope item after scope item no. 40 on page 011100-25:

“41. 2nd Floor stair tower door frames will be installed after CMU stair towers are erected and 2nd floor slabs are poured. Masonry contractor to include grouting of these frames after stair tower masonry walls are erected.”

e. CONTRACT A-06 CARPENTRY & GENERAL WORKS

1. ADD the following specification to the list of Technical Specifications:

“Section 102600 Wall Protection”

2. DELETE Section 102601 Corner Guards from the list of Technical Specifications.

3. DELETE scope item no. 54 on page 011100-33. This contractor does not have any BIM related work.





4. ADD the following new scope items after scope item no. 57 on page 011100-33:

“58. Install punched frames at 2nd floor stair tower doors.

59. Provide wall protection (including waterjet cut letters) at learning stair seats. Include full-capture metal edges.”

f. CONTRACT A-07 METAL STUDS & DRYWALL

1. ADD the following specification to the list of Technical Specifications:

“Section 061213 Structural Panel Concrete Subfloor ”

2. ADD the following new scope item after scope item no. 40 on page 011100-37:

“41. Provide cement board underlayment and structural panel concrete subfloor at Learning Stair seats and steps. Include as backer for terrazzo tile on vertical surfaces of steps shown in Detail A1/A-407.”

g. CONTRACT A-10 DOORS, FRAMES AND HARDWARE SUPPLY

1. ADD the following new scope item after scope item no. 14 on page 011100-44:

“15. Provide punched frames at 2nd floor stair tower doors.”

h. CONTRACT A-17 TERRAZZO TILE

1. ADD the following new scope item after scope item no. 16 on page 011100-59:

“17. Provide precast terrazzo treads and risers at learning stair including vertical surfaces as detailed on Sheet A-407.”

i. CONTRACT A-20 GYMNASIUM EQUIPMENT AND BLEACHERS

1. ADD the following new scope item after scope item no. 17 on page 011100-65:

“18. The exterior basketball hoops specified in Section 116625 are being provided by Contract A-2 Sitework.”

j. CONTRACT A-27 PLUMBING

1. ADD the following new scope items after scope item no. 33 on page 011100-81:

“34. Before ANY excavation work is to commence, the Contractor/Excavator shall contact the utility companies or utility owners and advise them of the proposed work and ask them to mark the location of the underground utility installations. This notification shall be done within established or customary local response times. If the work is on private property and the utility company will not mark out the utilities, the Contractor/Excavator will hire a private locating service to mark the utilities. Once the utilities are located and marked, the Contractor/Excavator will excavate by hand or use a vacuum truck to expose the utilities and





record the exact location and elevation of the utilities. The Contractor/Excavator must submit the Excavation Permit to EDiS Company verifying their assurance of communication with the utility companies or utility owners. The Contractor/Excavator must follow State, Local, and Federal Guidelines prior to proceeding with excavations. The Contractor/Excavator will have these marks restored as long as there is work to perform. Once the Contractor has installed new utilities, they will provide to EDiS Company an as-built drawing, within 7 days, showing the exact location and elevation of the utilities. The installing Contractor will be responsible for locating and marking these utilities for other contractors that may have work in the same area."

k. **CONTRACT A-28 MECHANICAL**

1. ADD the following new scope items after scope item no. 32 on page 011100-84:

"33. Before ANY excavation work is to commence, the Contractor/Excavator shall contact the utility companies or utility owners and advise them of the proposed work and ask them to mark the location of the underground utility installations. This notification shall be done within established or customary local response times. If the work is on private property and the utility company will not mark out the utilities, the Contractor/Excavator will hire a private locating service to mark the utilities. Once the utilities are located and marked, the Contractor/Excavator will excavate by hand or use a vacuum truck to expose the utilities and record the exact location and elevation of the utilities. The Contractor/Excavator must submit the Excavation Permit to EDiS Company verifying their assurance of communication with the utility companies or utility owners. The Contractor/Excavator must follow State, Local, and Federal Guidelines prior to proceeding with excavations. The Contractor/Excavator will have these marks restored as long as there is work to perform. Once the Contractor has installed new utilities, they will provide to EDiS Company an as-built drawing, within 7 days, showing the exact location and elevation of the utilities. The installing Contractor will be responsible for locating and marking these utilities for other contractors that may have work in the same area."

3. **SECTION 013216 : Construction Schedule - INSERT the Project Schedule dated 9 April 2020**

4. **SECTION 030506 – UNDER-SLAB VAPOR BARRIER**

Page 030506-2, Article 2.01, Paragraph B:

Add subparagraph 4:

4. Viper II by ISI Building Products.

5. **SECTION 042000 – UNIT MASONRY**

Page 042000-8, Article 2.02, Paragraph A, subparagraph 2:

Add to subparagraph 2a:

- 3) Glen Gery Ravenna Redburn

Add to subparagraph 2b:

- 2) Glen Gery Kokomo Heritage Flashed (darker brown only; cull brick as required)





6. SECTION 061213 – STRUCTURAL PANEL CONCRETE SUBFLOOR

Page 061213-2, Article 2.01, Paragraph A:

Add subparagraph 2:

2. Other Approved Manufacturers/Products:
 - a. Megaboard, By Ectek International.

7. SECTION 079513 – EXPANSION JOINT COVER ASSEMBLIES

Page 079513-1, Article 2.01, Paragraph A:

Add subparagraph 5:

5. Balco, Inc.

8. SECTION 088000 - GLAZING

- a. Insert Section 088000, Revision 0, dated 2/21/2020, attached to this Addendum, into the Project Manual.

9. SECTION 123400 – LAMINATE CLAD CASEWORK

Page 123400-2, Article 2.01, Paragraph A:

Change subparagraph 2 to read:

2. Subject to compliance with requirements, products of the following manufacturers are also approved:
 - a. Case Systems
 - b. Stevens Industries

MODIFICATIONS TO DRAWINGS:

DRAWINGS – VOLUME 1:

1. DRAWING G-111: Delete Drawing G-111, and replace with Drawing G-111, Revision 1, dated 04/03/2020, attached to this Addendum.
2. DRAWING S-004: Delete Drawing S-004, and replace with Drawing S-004, Revision 1, dated 04/03/2020, attached to this Addendum.
3. DRAWING S-111: Delete Drawing S-111, and replace with Drawing S-111, Revision 1, dated 04/03/2020, attached to this Addendum.
4. DRAWING S-112: Delete Drawing S-112, and replace with Drawing S-112, Revision 1, dated 04/03/2020, attached to this Addendum.
5. DRAWING S-113: Delete Drawing S-113, and replace with Drawing S-113, Revision 1, dated 04/03/2020, attached to this Addendum.
6. DRAWING S-114: Delete Drawing S-114, and replace with Drawing S-114, Revision 1, dated 04/03/2020, attached to this Addendum.
7. DRAWING S-115: Delete Drawing S-115, and replace with Drawing S-115, Revision 1, dated 04/03/2020, attached to this Addendum.
8. DRAWING S-121: Delete Drawing S-121, and replace with Drawing S-121, Revision 1, dated 04/03/2020, attached to this Addendum.





9. DRAWING S-122: Delete Drawing S-122, and replace with Drawing S-122, Revision 1, dated 04/03/2020, attached to this Addendum.
10. DRAWING S-131: Delete Drawing S-131, and replace with Drawing S-131, Revision 1, dated 04/03/2020, attached to this Addendum.
11. DRAWING S-132: Delete Drawing S-132, and replace with Drawing S-132, Revision 1, dated 04/03/2020, attached to this Addendum.
12. DRAWING S-133: Delete Drawing S-133, and replace with Drawing S-133, Revision 1, dated 04/03/2020, attached to this Addendum.
13. DRAWING S-141: Delete Drawing S-141, and replace with Drawing S-141, Revision 1, dated 04/03/2020, attached to this Addendum.
14. DRAWING S-202: Delete Drawing S-202, and replace with Drawing S-202, Revision 1, dated 04/03/2020, attached to this Addendum.
15. DRAWING S-501: Delete Drawing S-501, and replace with Drawing S-501, Revision 1, dated 04/03/2020, attached to this Addendum.
16. DRAWING S-504: Delete Drawing S-504, and replace with Drawing S-504, Revision 1, dated 04/03/2020, attached to this Addendum.
17. DRAWING S-505: Delete Drawing S-505, and replace with Drawing S-505, Revision 1, dated 04/03/2020, attached to this Addendum.
18. DRAWING S-515: Delete Drawing S-515, and replace with Drawing S-515, Revision 1, dated 04/03/2020, attached to this Addendum.
19. DRAWING S-518: Delete Drawing S-518, and replace with Drawing S-518, Revision 1, dated 04/03/2020, attached to this Addendum.
20. DRAWING S-519: Delete Drawing S-519, and replace with Drawing S-519, Revision 1, dated 04/03/2020, attached to this Addendum.
21. DRAWING S-520: Delete Drawing S-520, and replace with Drawing S-520, Revision 1, dated 04/03/2020, attached to this Addendum.
22. DRAWING S-522: Delete Drawing S-522, and replace with Drawing S-522, Revision 1, dated 04/03/2020, attached to this Addendum.
23. DRAWING S-523: Delete Drawing S-523, and replace with Drawing S-523, Revision 1, dated 04/03/2020, attached to this Addendum.
24. DRAWING S-524: Delete Drawing S-524, and replace with Drawing S-524, Revision 1, dated 04/03/2020, attached to this Addendum.
25. DRAWING S-525: Delete Drawing S-525, and replace with Drawing S-525, Revision 1, dated 04/03/2020, attached to this Addendum.
26. DRAWING S-526: Delete Drawing S-526, and replace with Drawing S-526, Revision 1, dated 04/03/2020, attached to this Addendum.
27. DRAWING A-131: Delete Drawing A-131, and replace with Drawing A-131, Revision 1, dated 04/03/2020, attached to this Addendum.
28. DRAWING A-143: Delete Drawing A-143, and replace with Drawing A-143, Revision 1, dated 04/03/2020, attached to this Addendum.
29. DRAWING A-312: Delete Drawing A-312, and replace with Drawing A-312, Revision 1, dated 04/03/2020, attached to this Addendum.
30. DRAWING A-324: Delete Drawing A-324, and replace with Drawing A-324, Revision 1, dated 04/03/2020, attached to this Addendum.





31. DRAWING A-403: Delete Drawing A-403, and replace with Drawing A-403, Revision 1, dated 04/03/2020, attached to this Addendum.
32. DRAWING A-427: Delete Drawing A-427, and replace with Drawing A-427, Revision 1, dated 04/03/2020, attached to this Addendum.
33. DRAWING A-434: Delete Drawing A-434, and replace with Drawing A-434, Revision 1, dated 04/03/2020, attached to this Addendum.
34. DRAWING A-443: Delete Drawing A-443, and replace with Drawing A-443, Revision 1, dated 04/03/2020, attached to this Addendum.
35. DRAWING A-445: Delete Drawing A-445, and replace with Drawing A-445, Revision 1, dated 04/03/2020, attached to this Addendum.
36. DRAWING A-449: Delete Drawing A-449, and replace with Drawing A-449, Revision 1, dated 04/03/2020, attached to this Addendum.
37. DRAWING A-514: Delete Drawing A-514, and replace with Drawing A-514, Revision 1, dated 04/03/2020, attached to this Addendum.

DRAWINGS – VOLUME 2:

1. DRAWING I-401: Delete Drawing I-401, and replace with Drawing I-401, Revision 1, dated 04/03/2020, attached to this Addendum.
2. DRAWING I-601: Delete Drawing I-601, and replace with Drawing I-601, Revision 1, dated 04/03/2020, attached to this Addendum

LIST OF ATTACHMENTS:**RFI'S**

RFI's – 3, 6, 8, 10, 14, 16, 17, 19, 23, 29 & 30.

SPECIFICATIONS:

SECTION 088000 - GLAZING, Revision 0, dated 2/21/2020.

DRAWINGS – VOLUME 1:

G-111 – FIRST FLOOR CODE REVIEW PLAN

S-004 - PROJECT SCHEDULES

S-111 - FOUNDATION PLAN - AREA A

S-112 - FOUNDATION PLAN - AREA B

S-113 - FOUNDATION PLAN - AREA C

S-114 - FOUNDATION PLAN - AREA D

S-115 - FOUNDATION PLAN - AREA E

S-121 - SECOND FLOOR FRAMING PLAN - AREA A

S-122 - SECOND FLOOR FRAMING PLAN - AREA B

S-131 - ROOF FRAMING PLAN - AREA A

S-132 - ROOF FRAMING PLAN - AREA B

S-133 - ROOF FRAMING PLAN - AREA C

S-141 - LIGHTING PLATFORMS





S-202 - PARTIAL PLANS
S-501 - TYPICAL FOUNDATION DETAILS
S-504 - FOUNDATION SECTIONS
S-505 - FOUNDATION SECTIONS
S-515 - FRAMING SECTIONS
S-518 - FRAMING SECTIONS
S-519 - FRAMING SECTIONS
S-520 - FRAMING SECTIONS
S-522 - FRAMING SECTIONS
S-523 - FRAMING SECTIONS
S-524 - FRAMING SECTIONS
S-525 - FRAMING SECTIONS
S-526 - FRAMING SECTIONS

A-131 – OVERALL ROOF PLAN
A-143 – FIRST FLOOR REFLECTED CEILING – AREA ‘C’
A-312 – BUILDING SECTIONS
A-324 – WALL SECTIONS
A-403 – ENLARGED PLANS
A-427 – AUDITORIUM SEATING PLAN
A-434 – ELEVATOR, LIFT, AUD. STAIRS AND RAMP
A-443 – CASEWORK ELEVATIONS FIRST LEVEL E
A-445 – CASEWORK ELEVATIONS SECOND LEVEL B
A-449 – CASEWORK SECTION
A-514 – EXTERIOR SECTION DETAILS

DRAWINGS – VOLUME 2:

I-401 – INTERIOR ELEVATIONS
I-601 – FINISH SCHEDULE

End of Addendum No. 3





REQUEST FOR INFORMATION
BID PACK A

TO: SETH HAMMONDS, ABHA

PRE-BID RFI#: 003

FROM: ANDREW HICKEY, EDiS COMPANY

DATE: 23 MARCH 2020

PROJECT: EVERETT MEREDITH MIDDLE SCHOOL

DWG. # / DETAIL: _____ SPEC. SECTIONS: 092116 PAGE: _____

REQUEST:

Submitted By: Narissa Building Company

Date: 23 March 2020

- 1.) Division 09 Finishes 092116 Gypsum Board Assemblies 1 – 9 Is missing from the project specification.

RESPONSE:

- 1.) Section 092116 was not printed correctly. See Section 092116 attached to Addendum no 2.

Response By: Scott Lester, ABHA Date: 27 March 2020



REQUEST FOR INFORMATION
BID PACK A

TO: EDIS COMPANY

PRE-BID RFI#: 006

FROM: ANDREW HICKEY, EDiS COMPANY

DATE: 23 MARCH 2020

PROJECT: EVERETT MEREDITH MIDDLE SCHOOL

DWG. # / DETAIL: _____ SPEC. SECTIONS: _____ PAGE: _____

REQUEST:

Submitted By: EDiS Company

Date: 23 March 2020

- 1.) Can the existing fire hydrants be used for temporary water and dust control?
-

RESPONSE:

- 1.) The Town of Middletown will allow the use of the fire hydrants for temporary water and dust control. A backflow preventer and meter will be furnished and installed by the Town. The bill will be submitted to EDiS.

Response By: Chris McCone, EDiS Company Date: 3/23/2020



REQUEST FOR INFORMATION
BID PACK A

TO: TED WILLIAMS, LANDMARK

PRE-BID RFI#: 008

FROM: ANDREW HICKEY, EDiS COMPANY

DATE: 24 MARCH 2020

PROJECT: EVERETT MEREDITH MIDDLE SCHOOL

DWG. # / DETAIL: _____ SPEC. SECTIONS: _____ PAGE: _____

REQUEST:

Submitted By: EDiS Company

Date: 24 March 2020

- 1.) Dwg C100 there is an existing utility pole shown to be relocated. Provide clarification on the new location of this pole; who is responsible for relocating the pole?; and who will pay for the relocation? **Comment changed to state "Existing utility pole to remain and guy wires to be relocated by other as needed. Contractor shall coordinate with Town of Middletown."**
- 2.) Dwg C100 there is a note to relocate the existing shed onto proposed concrete pad. Confirm this is the Tool Shed (NIC) shown on A-113 being installed on the new concrete turned down slab S3A on Dwg S-113. **Callout now states "Existing shed to be located onto proposed concrete pad by others. Contractor to coordinate with Appoquinimink School District for new location."**
- 3.) Dwg C101 show the existing fence along Priscilla Street "To be replaced along property line". There is no relocated or new fence shown on dwg C111. Provide clarification on what is to be done with this fence. **Callouts added in these areas stating "Existing fence to be removed along property line within this area".**
- 4.) Dwg C101 the existing gas meter on the backside of the gymnasium is shown to be removed. What is to be done with the associated underground gas piping? **Callout now states "Existing gas meter to be removed. Underground piping to be cut at service tap and removed as necessary."**
- 5.) Dwg C103 shows 35 Memorial Bricks at the Field House to be saved and relocated. There is nothing on the plans showing where these are to be installed. Provide direction. **Callout now states "The 35 memorial bricks are to be saved and given to the Appoquinimink School District."**
- 6.) Dwg C103 shows the existing storm pipes on the south side of the Field House to be replaced. Dwg C123 shows the new storm pipes and structures. What is to be done with the existing pipes and structures? **Callout is added pointing to the three pipes stating "Existing three (3) storm pipes shall be abandoned in-place and plugged with masonry. Contractor shall remove storm pipes as necessary with conflict of new construction."**
- 7.) Dwg C110 can you confirm that the 6" sanitary line's inverts between CO#2 and CO#8, upstream of the grease trap, don't conflict with the 3" waterline or the dual temp lines



shown on ME-171. Callout added stating "Sanitary cleanout elevation at 3" water line crossing: 55.73. Contractor to ensure a minimum of 6" clearance between top and bottom of crossing pipes." Same callout added to Sheet C141.

- 8.) Dwg C110 the label on the pipe between Existing CB#2 and Proposed CB#3 is covered by the note "Approximate location of (2) existing water lines...". Provide information on the pipe. Is this pipe existing or new? Callout changed to state "Approximate location of (2) existing water lines. Contractor shall field verify location and depth at all areas of new utility crossings." Same callout added to Sheet C111.
- 9.) Dwg C111 there is a note on Broad Street, "Variable width strip established for State of Delaware". What does this mean? Is there work for a contractor? Callout changed to state "Variable width strip for DelDOT right-of-way dedication established for the State of Delaware." Same callout changed on Sheet C111.
- 10.) Dwg C120 – C123 – Are the grades at the curbs the top or bottom of the curbs? Spot elevation is added to legend on Sheet C001.
Boxed callout on each Sheets C120 through C123 stating:
"Note:
 1. All spot elevation are bottom of curb unless otherwise stated.
 2. Proposed curbing not within DelDOT right-of-way to be modified Type 1-6 P.C.C curb. Within DelDOT right-of-way to be Type 1-8 P.C.C curb. See detail on Sheet C500."
- 11.) Dwg C120 Provide grades at the mechanical yard and mechanical yard doors. Spot grades at all doors around mechanic yard already have spot grades. All seven doors are at Elevation 57.50.
- 12.) Dwg C120 The stoned area between the classroom wing and the kitchen/cafeteria shows a finished grade of 57.50 sloping down to 57.0 near the loading dock. Is there sufficient fall in this area? There is a concern of trapping water over time. Show a yard drainage basin be installed? The grassed area falls 0.5 feet over 64 linear feet for a slope of 0.78%. This is adequate for positive drainage.
- 13.) Dwg C120 & C121 – Where the grades around the building are 57.0 and higher the through wall flashing will be at or above the interior finished floor elevation. Coordinate with the architect to ensure this is acceptable. Proposed grades in this area cannot be lowered. Coordinate with architect to make sure design of wall flashing is adequate.//
- 14.) Dwg C120 Main Entrance – Can you provide a larger scale drawing showing the grades at the sidewalks, ramps and stairs to the main entrance of the school. The scale of this drawing is too small to read. An inset was added on Sheet C120 showing the proposed entrance and spot grades.
- 15.) Dwg C120 Provide grades on the new curbs and handicap ramps at Berkman Street. Callout added stating "See entrance plans for spot grades within these areas"
- 16.) Dwg C141 provide the invert of the 6" sanitary lateral at the gym. The invert at the new MH#3 is 51.95. Callout added stating invert at building
- 17.) Dwg C142 provide the invert of the 6" sanitary lateral #5 at the building. The invert at the existing manhole is 49.14. Callout added stating invert at building



- 18.) Dwg C500 there is a downspout boot connection detail. There are no downspouts shown on the site utility plans. Provide direction of where these downspout boot connections are required. **The boot detail has been removed and a note added to the plan to connect to the internal roof drain collection pipe.**
- 19.) Dwg C501 Handicap Sign Detail – The detail provided is for installation in paved areas. Provide a detail when the signs are installed in grassed areas. The concrete base seems excessive in grassed areas. **Handicap Parking Stall Sign note #4 added stating “For handicapped signs installed within grassed areas, concrete footer is not required.”**
- 20.) Dwg C501 Bike Rack Detail – The notes indicate multiple finish options. Need to provide clear direction on which options the contractors are to price. Also need to provide other acceptable manufacturers. **Callout changed stating “10 bike racks with powder coated finish (color to be selected by owner) to accommodate 20 bicycles. Contractor to use Secure Site Design, L.C.C bike racks or approved equivalent.”**
- 21.) Dwg C503 has a detail for a 1000 gallon grease interceptor made of concrete. Dwg P-502 also has a detail for a 1000 gallon grease interceptor made of steel. Which detail is to be followed? **The Town of Middletown Sewer Specifications require a pre-cast concrete grease trap (interceptor). Steel is not permitted**
- 22.) Dwg AD-100, Demolition General Note C states to “Refer to Civil Dwgs for Scope of Basement Demolition. The Civil drawings do not address the basement demolition. Provide clarification. **See Callout changed on Sheet C100 stating “7,900 S.F. of 1.5 story, 4’ crawl space and foundation to be demolished and backfilled. All basement walls are to be removed in their entirety.”**

RESPONSE:

- 1.) Responses shown in RED above. Revised documents issued in Addendum No. 2

Response By: Ted C. Williams Date: 3/31/2020



REQUEST FOR INFORMATION
BID PACK A

TO: EDIS COMPANY

PRE-BID RFI#: 010

FROM: ANDREW HICKEY, EDiS COMPANY

DATE: 25 MARCH 2020

PROJECT: EVERETT MEREDITH MIDDLE SCHOOL

DWG. # / DETAIL: _____ SPEC. SECTIONS: _____ PAGE: _____

REQUEST:

Submitted By: Maccari Companies, Inc.

Date: 25 March 2020

- 1.) Are the wallcovering graphics being supplied by the owner or should we give an allowance for them? They are TBD.

RESPONSE:

- 1.) Yes, the artwork will be provided by the Architect.

Response By: ABHA Date: 27 Mar 20



REQUEST FOR INFORMATION
BID PACK A

TO: SETH HAMMONDS, ABHA

PRE-BID RFI#: 014

FROM: ANDREW HICKEY, EDiS COMPANY

DATE: 26 MARCH 2020

PROJECT: EVERETT MEREDITH MIDDLE SCHOOL

DWG. # / DETAIL: C110, C111 SPEC. SECTIONS: _____ PAGE: _____

REQUEST:

Submitted By: EDiS Company

Date: 26 March 2020

- 1.) Dwg C111 needs to be revised to show our new 8" line connecting to the town's new water valve. The lines inside the water meter vault should be increased to 8". See attached sketch.
- 2.) Dwg C111 can we reduce the size of the line feeding the fire hydrant in the south parking lot from 8" to 6"?
- 3.) Dwgs C110 & C111 is the existing 6" water line serving the campus sufficient for the new EMMS, field house, and APC?
- 4.) Dwg C110 can we reduce the size of the lines feeding the fire hydrants on the north side of the site 8" to 6"?

RESPONSE:

- 1.) Plans have been updated to address these items- See Addendum No 2

Response By: Scott Lester, ABHA Date: 03 April 2020



REQUEST FOR INFORMATION
BID PACK A

TO: SETH HAMMONDS, ABHA

PRE-BID RFI#: 016

FROM: ANDREW HICKEY, EDiS COMPANY

DATE: 26 MARCH 2020

PROJECT: EVERETT MEREDITH MIDDLE SCHOOL

DWG. # / DETAIL: _____ SPEC. SECTIONS: _____ PAGE: _____

REQUEST:

Submitted By: Abacus Sports Installations

Date: 26 March 2020

- 1.) Please see attached substitution request form for the resilient athletic flooring at Everett Meredith MS. I am proposing that the specification be changed to recycled rubber flooring supplied by Regupol America located here in the US. All vulcanized rubber is manufactured overseas in either Italy or China and is subject to potential manufacturing/shipping delays and backlogging due to those areas being hit hardest by the Coronavirus. These vulcanized products are also typically 2-3 times more expensive than the recycled rubber products from a material standpoint.

RESPONSE:

- 1.) The product submitted as a substitution contains recycled rubber which does not meet the requirements listed in the specification.- not accepted.

Response By: Scott Lester, ABHA Date: 03 April 2020



REQUEST FOR INFORMATION
BID PACK A

TO: SETH HAMMONDS, ABHA

PRE-BID RFI#: 017

FROM: ANDREW HICKEY, EDiS COMPANY

DATE: 27 MARCH 2020

PROJECT: EVERETT MEREDITH MIDDLE SCHOOL

DWG. # / DETAIL: _____ SPEC. SECTIONS: 123400 PAGE: _____

REQUEST:

Submitted By: Reed Associates

Date: 27 March 2020

- 1.) I am contacting you in reference the casework for the upcoming bid for the Meredith Middle School. Specifically, I am requesting approval of Stevens Industries Casework under sections 123400 Plastic Laminate Casework and section 1235583 Specialty Casework. Stevens is the same manufacturer approved for the Fairview project as well as being supplied at the Poly Tech and Woodbridge HS projects administered by your office.
- 2.) Under the plam casework section the specs list TMI and Case Systems. TMI will be bid by Modular Concepts. Case Systems does not and has not been bidding in DE for many years. So at this point you only have one viable bidder.

RESPONSE:

- 1.) Subject to compliance with specification requirements, Stevens Industries is approved. See Addendum No. 3.

Response By: Scott Lester, ABHA Date: 03 April 2020



REQUEST FOR INFORMATION
BID PACK A

TO: SETH HAMMONDS, ABHA

PRE-BID RFI#: 019

FROM: ANDREW HICKEY, EDiS COMPANY

DATE: 30 MARCH 2020

PROJECT: EVERETT MEREDITH MIDDLE SCHOOL

DWG. # / DETAIL: S113 SPEC. SECTIONS: _____ PAGE: _____

REQUEST:

Submitted By: EDiS Company

Date: 30 March 2020

- 1.) Drawing S113 shows 2 rows of foundations to the left of column line 26.8. It is assumed the row closest to column line 26.8 is the base bid for Alternate 5B Enlarged Cafeteria Terrace and the line furthest from column line 26.8 is the add for the alternate. Please confirm.

RESPONSE:

- 1.) Correct, see Addendum #3 issue.

Response By: Scott Lester, ABHA Date: 03 April 2020



REQUEST FOR INFORMATION
BID PACK A

TO: SETH HAMMONDS, ABHA

PRE-BID RFI#: 023

FROM: ANDREW HICKEY, EDiS COMPANY

DATE: 31 MARCH 2020

PROJECT: EVERETT MEREDITH MIDDLE SCHOOL

DWG. # / DETAIL: _____ SPEC. SECTIONS: _____ PAGE: _____

REQUEST:

Submitted By: Brandywine Contractors

Date: 31 March 2020

- 1.) Attached are the Balco Details, Tech Data, Expansion Control Spec, and the EJC Comparison spreadsheet.

RESPONSE:

- 1.) Balco is an acceptable manufacturer. See Addendum No 3.

Response By: Scott Lester, ABHA Date: 03 April 2020



REQUEST FOR INFORMATION
BID PACK A

TO: SETH HAMMONDS, ABHA

PRE-BID RFI#: 029

FROM: ANDREW HICKEY, EDiS COMPANY

DATE: 02 APRIL 2020

PROJECT: EVERETT MEREDITH MIDDLE SCHOOL

DWG. # / DETAIL: _____ SPEC. SECTIONS: _____ PAGE: _____

REQUEST:

Submitted By: AllGlass Systems LLC.

Date: 02 April 2020

- 1.) I'm not seeing a glazing spec in the project manual. Can someone please let me know where I can find this?

RESPONSE:

- 1.) Section 088000 was inadvertently omitted from the Project Manual. See Addendum No 3 for this Section.

Response By: Scott Lester, ABHA

Date: 03 April 2020



REQUEST FOR INFORMATION
BID PACK A

TO: SETH HAMMONDS, ABHA

PRE-BID RFI#: 030

FROM: ANDREW HICKEY, EDiS COMPANY

DATE: 02 APRIL 2020

PROJECT: EVERETT MEREDITH MIDDLE SCHOOL

DWG. # / DETAIL: _____ SPEC. SECTIONS: _____ PAGE: _____

REQUEST:

Submitted By: Ectek International Inc.

Date: 02 April 2020

- 1.) I have submitted a formal request for substitution to Mr. Scott Lester. MegaBoard is UL and ICC-ES certified. Megaboard has 36 UL listed floor/roof assemblies.
 - 2.) Here are some basic financial analysis for the substitution:
 - a. USG structural panel MSRP is \$4.5/SF.
 - b. Megaboard structural cement board MSRP is \$2.25~2.5/SF.
 - c. The saving on the material itself is going to be more than \$250,000 for a 125,306 SF job.
 - d. Plus 15~ 20% faster construction speed which will save significant amount labour cost (25% less weight, easier and faster cutting, way less dust and breakage).
 - e. When the boards are cut during construction, Megaboard generates 70% less dust than USG structural panel.
 - f. In the past 2.5 years since we started MegaBoard, we did not receive a single complaint.
 - g. We used to be the OEM for Dragon Board which has been active in NYC market for over 15 years.
 - h. We have 1 classroom job going at Ashland, WA, 2 jobs going with Prescient (student housing at Davis CA and Denver CO), 2 hotel jobs in Atlanta (Towne Place Suite, Holiday Inn, 1 hotel (Tru Hotel) in VA, 1 emergency health care facility in Appleton, WI, 1 student housing in Fayetteville AR, plus a few modular manufacturers for classrooms and others.
-



RESPONSE:

- 1.) Approved - see Addendum No 3.

Response By: Scott Lester, ABHA Date: 03 April 2020

TEST HOLE TABULATION

TH #	DATE	ACTUAL SIZE, MATERIAL, TYPE OF UTILITY	OWNER	UTILITY CONDITION			REF. MARK ELEV. (Feet)	UTILITY TOP ELEV. (Feet)	UTILITY BOT ELEV. (Feet)	MEASURED TOP DEPTH (ft)	MEASURED BOT DEPTH (ft)	WIDTH (Inches)	BM #	BM ELEV. (Feet)	SURFACE/DEPTH			GENERALIZED SOIL TYPE				
				GOOD	POOR	OTHR									ASPH.	CONC.	SOIL	FILL	ROCK	SAND	CLAY	OTHR
1	10/28/2019	4" Black Metal Water Pipe	EMMS	X			54.13	50.35	N/A	3.78	N/A	N/A	CB	54.51			X			X		
2	10/29/2019	6" Black Metal Water Pipe	EMMS	X			55.77	52.11	N/A	3.66	N/A	N/A	CB	54.51			X			X		
3a	10/29/2019	4" Gray Plastic Communications Conduit	EMMS	X			58.76	55.52	N/A	3.24	N/A	N/A	CB	54.51			X			X		
3b	10/29/2019	2" Gray Plastic Communications Conduit	EMMS	X			58.77	55.53	N/A	3.24	N/A	N/A	CB	54.51			X			X		
4	10/29/2019	6" Black Metal Water Pipe	EMMS	X			58.84	54.33	N/A	4.51	N/A	N/A	CB	54.51			X			X		
5	10/29/2019	2" Yellow Plastic Gas Pipe	EMMS	X			56.38	53.56	N/A	2.82	N/A	N/A	CB	54.51			X			X		
6	10/29/2019	2" Yellow Plastic Gas Pipe	EMMS	X			57.12	54.60	N/A	2.52	N/A	N/A	CB	54.51			X			X		
7	10/29/2019	(3) 1" Red with Black Stripes Electric Cables (direct bury)	EMMS	X			56.14	53.22	N/A	2.92	N/A	N/A	CB	54.27			X			X		
8	10/29/2019	2 ½" Yellow Plstic Gas Pipe	EMMS	X			56.11	54.20	N/A	1.91	N/A	N/A	CB	54.27			X			X		
9	10/29/2019	4" Black Metal Electric Conduit	EMMS	X			56.01	50.70	N/A	5.31	N/A	N/A	CB	54.27			X		X	X		
10	10/29/2019	6" Black Metal Water Pipe	EMMS	X			55.26	51.70	N/A	3.56	N/A	N/A	CB	54.27			X				X	
11	10/29/2019	6" Black Metal Water Pipe	EMMS	X			55.31	51.43	N/A	3.88	N/A	N/A	CB	54.27			X				X	
12	10/29/2019	10" Black Metal Water Main	EMMS	X			55.41	51.93	N/A	3.48	N/A	N/A	CB	54.27			X				X	
13	10/29/2019	6" Brown Vitrified Clay Sanitary Sewer Pipe	EMMS	X			55.46	48.56	N/A	6.90	N/A	N/A	CB	54.27			X				X	
14	10/30/2019	10" Black Metal Water Pipe	EMMS	X			54.38	50.75	N/A	3.63	N/A	N/A	CB	54.27	3"						X	X
15	10/30/2019	10" Black Metal Water Main	EMMS	X			54.38	50.81	N/A	3.57	N/A	N/A	CB	54.27	4"						X	X
16	No Utility Found; Cleared to 9', Could not locate Sanitary Sewer Pipe																X				X	
17	10/30/2019	6" Black Metal Water Pipe	EMMS	X			51.71	48.50	N/A	3.21	N/A	N/A	CB	54.51			X			X		
18	11/1/2019	(3) ½" Black Sight Lighting Cables (direct bury)	EMMS	X			52.33	50.33	N/A	2.00	N/A	N/A	STMH	55.92			X		X	X		
19	11/1/2019	18" Gray Concrete Storm Drain Pipe	EMMS	X			52.43	48.00	N/A	4.43	N/A	N/A	STMH	55.92			X		X	X		
20a	11/1/2019	2" Gray Electric Conduit	EMMS	X			55.34	53.86	N/A	1.48	N/A	N/A	STMH	55.92			X		X	X		
20b	11/1/2019	(2) 1" Gray Electric Conduits	EMMS	X			55.34	53.86	N/A	1.48	N/A	N/A	STMH	55.92			X		X	X		
21a	11/1/2019	(3) ½" Black Electric Cables (direct bury)	EMMS	X			55.27	53.60	N/A	1.67	N/A	N/A	STMH	55.92			X		X	X		
21b	11/1/2019	¼" Black Electric Cable (direct bury)	EMMS	X			55.27	53.60	N/A	1.67	N/A	N/A	STMH	55.92			X		X	X		
22	11/4/2019	10' Diameter Dry Well (per information given by the client)	EMMS	X			55.65	41.65	N/A	14.00	N/A	N/A	CB	54.51			X		X	X		

SoftDig #: 196140
Dates: 10/29/19 - 11/4/19



EDiS
Everett Meredith Middle School (EMMS)
Middle town, New Castle County, Delaware

TEST HOLE TABULATION

23	11/4/2019	10' Diameter Dry Well (per information given by the client)	EMMS	X			55.51	46.61	N/A	8.90	N/A	N/A	CB	54.51			X		X	X		
----	-----------	---	------	---	--	--	-------	-------	-----	------	-----	-----	----	-------	--	--	---	--	---	---	--	--

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Site and Location

Color Codes

- Electric Power lines, Cables, Conduit, and Lighting Cables
- Gas, Oil, Steam, Petroleum, or Gaseous Material
- Communication, Alarm or Signal Lines, Cables, Conduit, and Fiber Optic
- Potable Water and Fire Suppression
- Sewers, Drain Lines, and Force Mains
- Unknown/Unidentified Facilities
- Reclaimed Water, Irrigation, and Slurry Lines

Symbols

- E Site light pole
- L Utility pole
- Sanitary sewer manhole
- m Clean out
- ST Storm drain manhole
- Catch basin
- Fire hydrant
- Water valve
- + Line continues
- Gas Meter

Clarifications

ALL FIELD SKETCHES ARE NOT TO SCALE AND ARE FOR RELATIVE LOCATION PURPOSES ONLY. SOFTDIG EXERCISES ITS BEST PROFESSIONAL EXPERTISE & GEOPHYSICAL PROSPECTING TECHNIQUES TO DESIGNATE SUBSURFACE UTILITIES MARKED TO CONSTITUTE ALL UTILITIES WITHIN THE PROJECT AREA. PRIOR TO ACTUAL CONSTRUCTION, UTILITIES MUST BE SUBSURFACE LOCATED BY SOFTDIG AT POTENTIAL CONFLICT POINTS TO AVOID PERSONAL INJURY AND/OR DAMAGE.

QUALITY LEVEL B: INFORMATION OBTAINED BY THE APPLICATION OF APPROPRIATE SURFACE GEOPHYSICAL METHODS TO DETERMINE THE EXISTENCE AND HORIZONTAL POSITION OF UTILITIES WITHIN THE PROJECT LIMITS. ALL UTILITIES SHOWN EXCEPT AS NOTED.

QUALITY LEVEL C: INFORMATION OBTAINED BY SURVEYING AND PLOTTING VISIBLE ABOVE-GROUND UTILITY FEATURES AND BY USING PROFESSIONAL JUDGEMENT IN CORRELATING THIS INFORMATION TO QUALITY LEVEL D INFORMATION.

UTILITIES DESIGNATED AS QL-C ARE REPRESENTED BY DASHED LINES. THESE MAY NOT HAVE CORRESPONDING FIELD MARKS. DEPTH READINGS SHOWN ARE ESTIMATIONS ONLY. THIS INFORMATION IS NOT GUARANTEED AND IS NOT TO BE USED FOR DESIGN OR BASIS FOR CONSTRUCTION. CLIENTS RELYING ON INSTRUMENT READINGS DO SO AT THEIR OWN RISK. TRUE DEPTH IS ONLY OBTAINED BY EXPOSING THE UTILITY.

QUALITY LEVEL D: INFORMATION DERIVED FROM EXISTING RECORDS OR ORAL RECOLLECTIONS

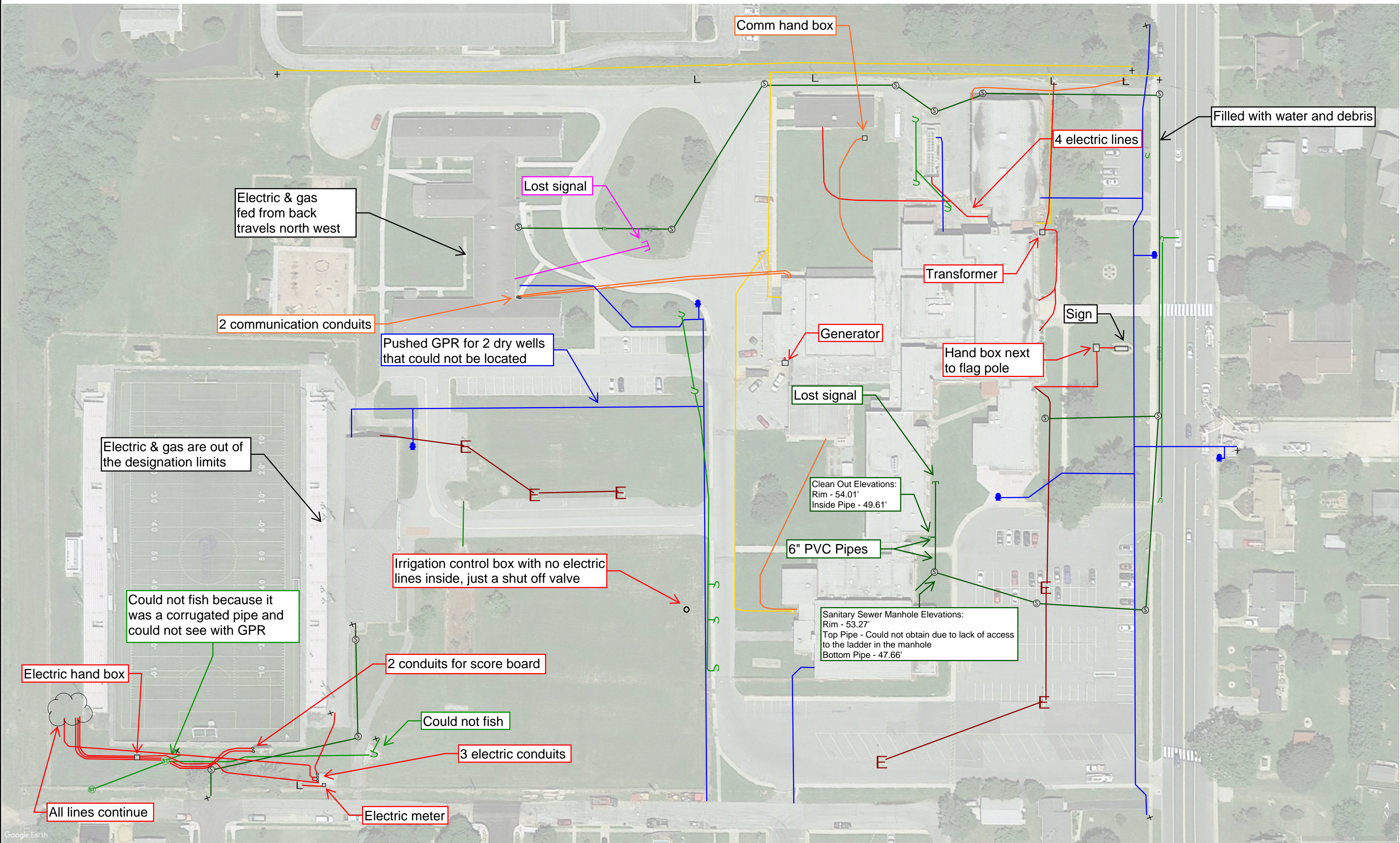
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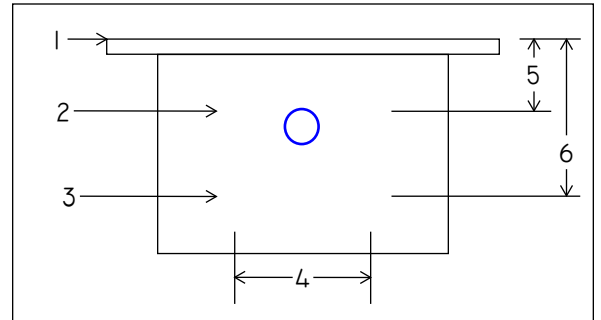
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ENGLISH UNITS

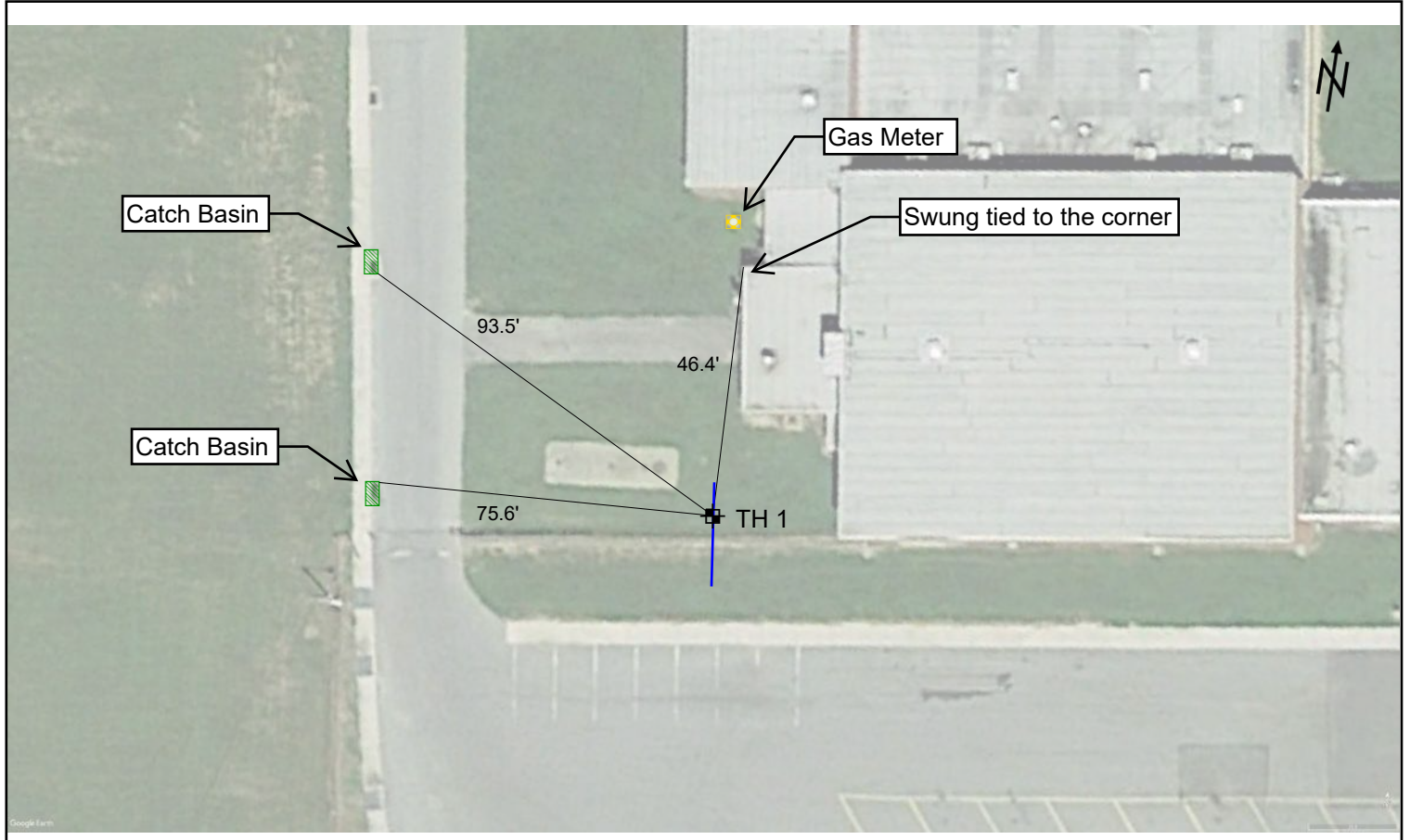
SOFTDIG PROJECT #: 196140 TEST HOLE #: 1 CLIENT: EDIS DATE: 10/28/19
ONE-CALL PERMIT: --- CREW: T. JOHNSON TRUCK #: 164
CITY / COUNTY / STATE: MIDDLETOWN, NEW CASTLE COUNTY, DELAWARE ROAD: S BROAD ST
GENERAL LOCATION: 504 S BROAD ST ANTICIPATED UTILITY: ---

----- TEST HOLE INFORMATION -----

ACTUAL SIZE, COLOR, MATERIAL, TYPE OF UTILITY 4" BLACK METAL WATER PIPE
UTILITY OWNER: EVERETT MEREDITH MIDDLE SCHOOL DESIGNATION COLOR: BLUE
OBSERVED UTILITY CONDITION: GOOD ☒ POOR ☐ OTHER ☐
TEST HOLE MARKED BY: PK NAIL ☐ HUB ☒ X MARK ☐
PORTION OF UTILITY EXPOSED TOP ☒ HALF ☐ SIDE ☐
1) REFERENCE ELEVATION 54.13'
2) UTILITY TOP ELEVATION 50.35'
3) UTILITY BOTTOM ELEVATION ---
4) WIDTH --- TYPE: FORMED ☐ ROUGH POUR ☐ RACKED ☐
5) UTILITY TOP DEPTH FROM REFERENCE 3.78'
6) UTILITY BOTTOM DEPTH FROM REFERENCE ---
SURFACE COVERING TYPE: ASPHALT ☐ CONCRETE ☐ SOIL ☒ SURFACE COVERING DEPTH: --- IN
GENERALIZED SOIL PROFILE: SELECT FILL ☐ ROCK ☐ SAND ☒ CLAY ☐ OTHER ---
BENCHMARK ELEVATION: 54.51' DESCRIPTION: CATCH BASIN
BENCHMARK ELEVATION: --- DESCRIPTION: ---



----- TEST HOLE PLAN -----



CHECKED BY: _____
DATE: _____

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SOFTDIG PROJECT #: 196140 TEST HOLE #: 2 CLIENT: EDIS DATE: 10/29/19
ONE-CALL PERMIT: --- CREW: T. JOHNSON TRUCK #: 164
CITY / COUNTY / STATE: MIDDLETOWN, NEW CASTLE COUNTY, DELAWARE ROAD: S BROAD ST
GENERAL LOCATION: IN FRONT OF APPOQUINIMINK PRESCHOOL CENTER ANTICIPATED UTILITY: ---

----- TEST HOLE INFORMATION -----

ACTUAL SIZE, COLOR, MATERIAL, TYPE OF UTILITY 6" BLACK METAL WATER PIPE
UTILITY OWNER: EVERETT MEREDITH MIDDLE SCHOOL DESIGNATION COLOR: BLUE

OBSERVED UTILITY CONDITION: GOOD ☒ POOR ☐ OTHER ☐

TEST HOLE MARKED BY: PK NAIL ☐ HUB ☒ X MARK ☐

PORTION OF UTILITY EXPOSED TOP ☒ HALF ☐ SIDE ☐

1) REFERENCE ELEVATION 55.77'

2) UTILITY TOP ELEVATION 52.11'

3) UTILITY BOTTOM ELEVATION ---

4) WIDTH --- TYPE: FORMED ☐ ROUGH POUR ☐ RACKED ☐

5) UTILITY TOP DEPTH FROM REFERENCE 3.66'

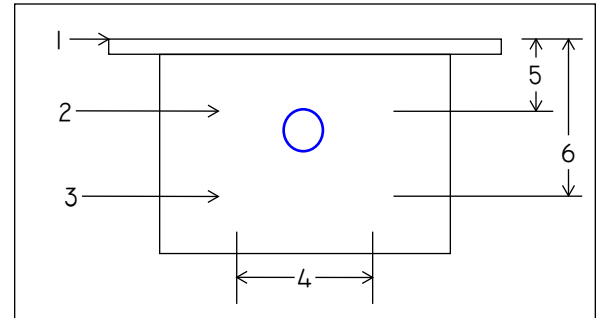
6) UTILITY BOTTOM DEPTH FROM REFERENCE ---

SURFACE COVERING TYPE: ASPHALT ☐ CONCRETE ☐ SOIL ☒ SURFACE COVERING DEPTH: --- IN

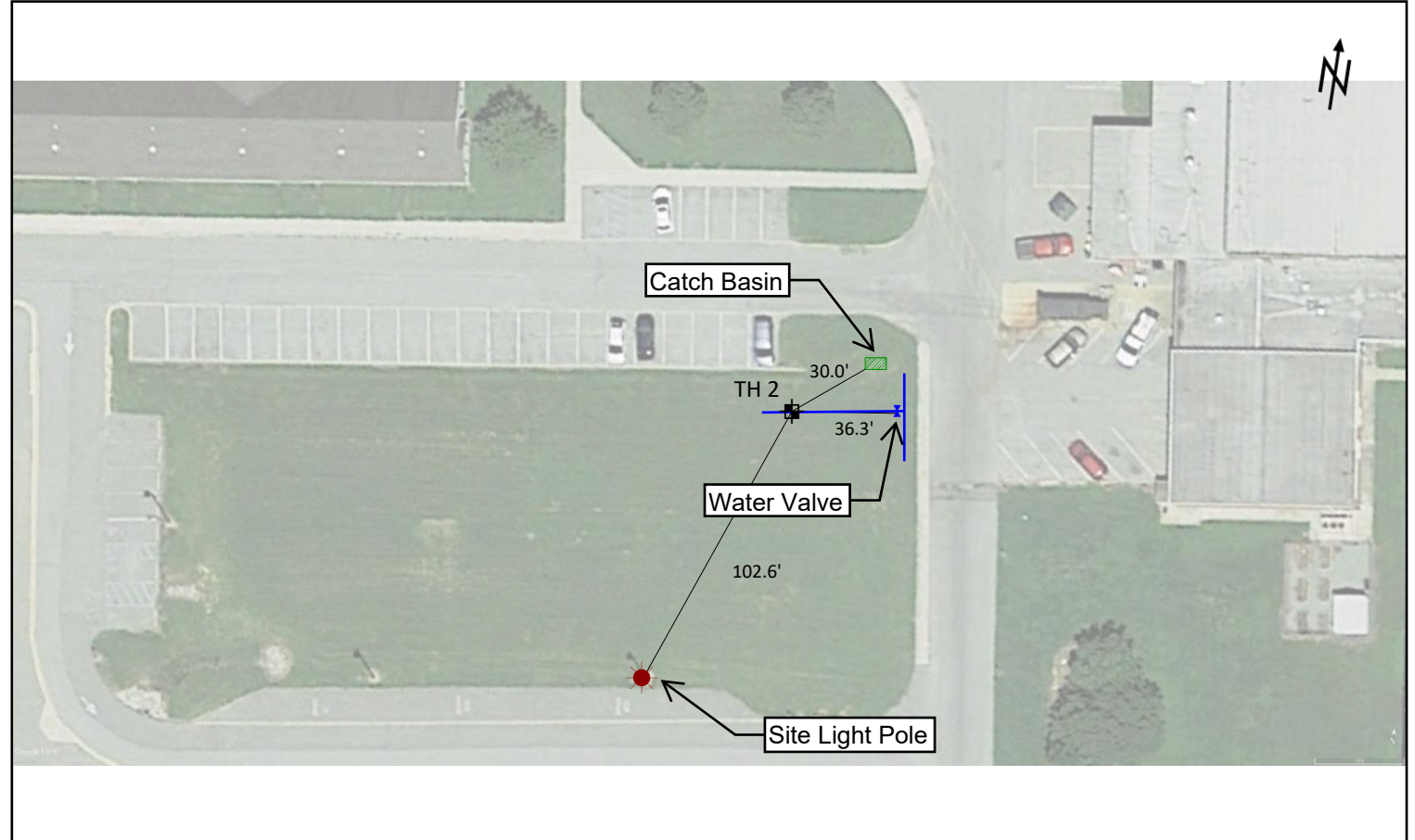
GENERALIZED SOIL PROFILE: SELECT FILL ☐ ROCK ☐ SAND ☒ CLAY ☐ OTHER ---

BENCHMARK ELEVATION: 54.51' DESCRIPTION: CATCH BASIN

BENCHMARK ELEVATION: --- DESCRIPTION: ---



----- TEST HOLE PLAN -----



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DATE: _____

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SOFTDIG PROJECT #: 196140 TEST HOLE #: 3A CLIENT: EDIS DATE: 10/29/19
ONE-CALL PERMIT: --- CREW: T. JOHNSON TRUCK #: 164
CITY / COUNTY / STATE: MIDDLETOWN, NEW CASTLE COUNTY, DELAWARE ROAD: S BROAD ST
GENERAL LOCATION: IN FRONT OF APPOQUINIMINK PRESCHOOL CENTER ANTICIPATED UTILITY: ---

----- TEST HOLE INFORMATION -----

ACTUAL SIZE, COLOR, MATERIAL, TYPE OF UTILITY 4" GRAY PLASTIC COMMUNICATIONS CONDUIT

UTILITY OWNER: EVERETT MEREDITH MIDDLE SCHOOL DESIGNATION COLOR: ORANGE

OBSERVED UTILITY CONDITION: GOOD ☒ POOR ☐ OTHER ☐

TEST HOLE MARKED BY: PK NAIL ☐ HUB ☒ X MARK ☐

PORTION OF UTILITY EXPOSED TOP ☒ HALF ☐ SIDE ☐

1) REFERENCE ELEVATION 58.76'

2) UTILITY TOP ELEVATION 55.52'

3) UTILITY BOTTOM ELEVATION ---

4) WIDTH --- TYPE: FORMED ☐ ROUGH POUR ☐ RACKED ☐

5) UTILITY TOP DEPTH FROM REFERENCE 3.24'

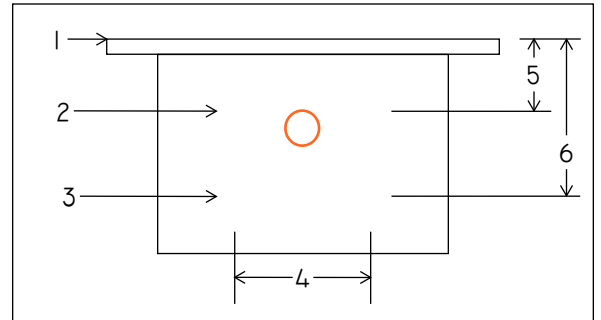
6) UTILITY BOTTOM DEPTH FROM REFERENCE ---

SURFACE COVERING TYPE: ASPHALT ☐ CONCRETE ☐ SOIL ☒ SURFACE COVERING DEPTH: --- IN

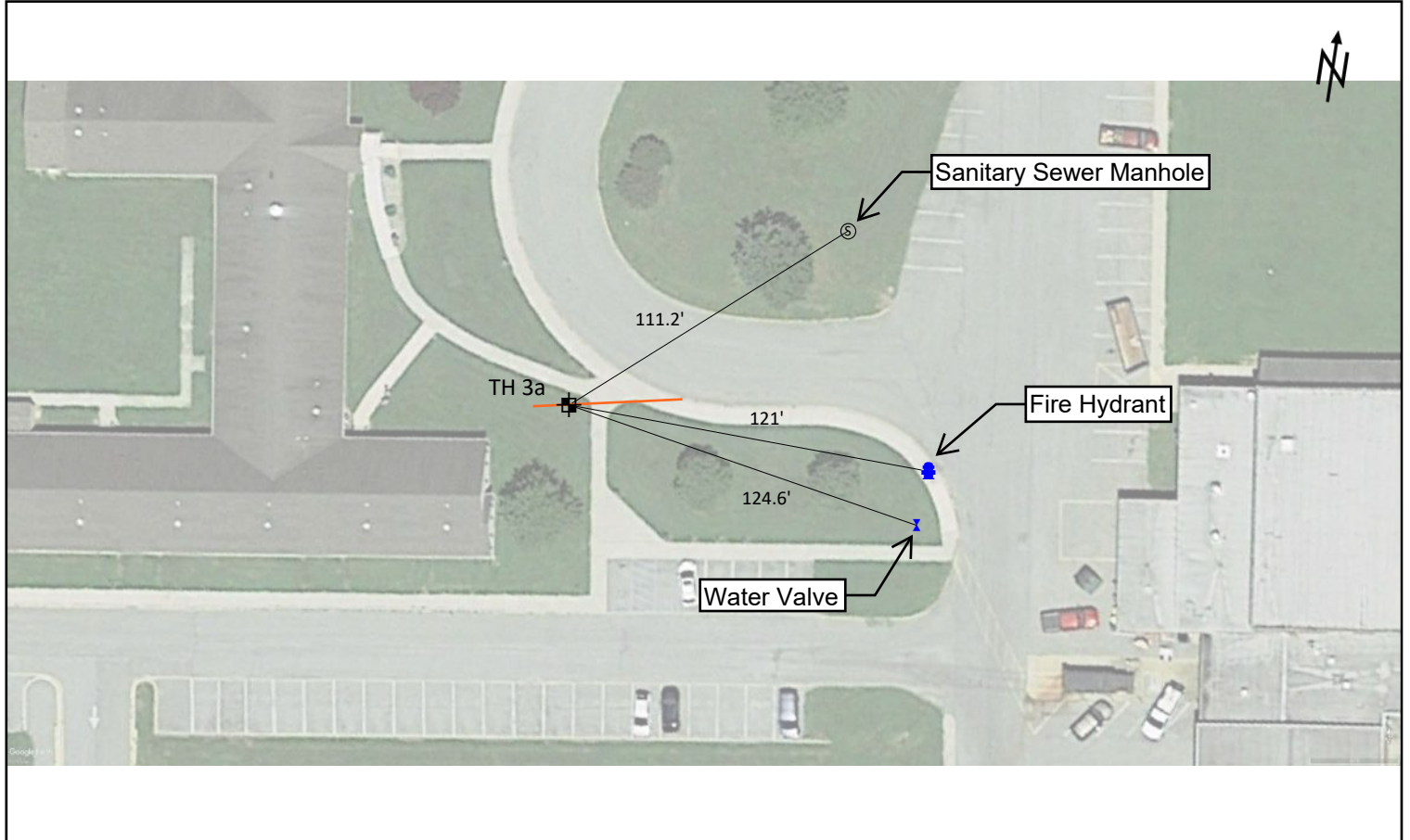
GENERALIZED SOIL PROFILE: SELECT FILL ☐ ROCK ☐ SAND ☒ CLAY ☐ OTHER ---

BENCHMARK ELEVATION: 54.51' DESCRIPTION: CATCH BASIN

BENCHMARK ELEVATION: --- DESCRIPTION: ---



----- TEST HOLE PLAN -----



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SOFTDIG PROJECT #: 196140 TEST HOLE #: 3B CLIENT: EDIS DATE: 10/29/19
ONE-CALL PERMIT: --- CREW: T. JOHNSON TRUCK #: 164
CITY / COUNTY / STATE: MIDDLETOWN, NEW CASTLE COUNTY, DELAWARE ROAD: S BROAD ST
GENERAL LOCATION: IN FRONT OF APPOQUINIMINK PRESCHOOL CENTER ANTICIPATED UTILITY: ---

----- TEST HOLE INFORMATION -----

ACTUAL SIZE, COLOR, MATERIAL, TYPE OF UTILITY 2" GRAY PLASTIC COMMUNICATIONS CONDUIT

UTILITY OWNER: EVERETT MEREDITH MIDDLE SCHOOL DESIGNATION COLOR: ORANGE

OBSERVED UTILITY CONDITION: GOOD ☒ POOR ☐ OTHER ☐

TEST HOLE MARKED BY: PK NAIL ☐ HUB ☒ X MARK ☐

PORTION OF UTILITY EXPOSED TOP ☒ HALF ☐ SIDE ☐

1) REFERENCE ELEVATION 58.76'

2) UTILITY TOP ELEVATION 55.52'

3) UTILITY BOTTOM ELEVATION ---

4) WIDTH --- TYPE: FORMED ☐ ROUGH POUR ☐ RACKED ☐

5) UTILITY TOP DEPTH FROM REFERENCE 3.24'

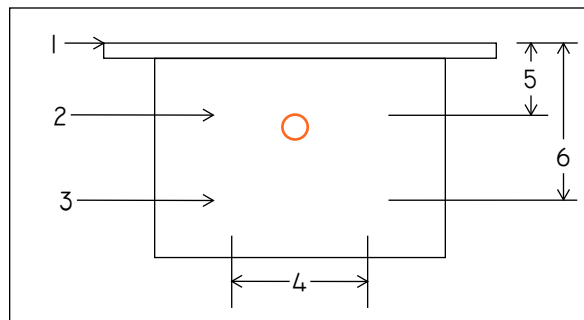
6) UTILITY BOTTOM DEPTH FROM REFERENCE ---

SURFACE COVERING TYPE: ASPHALT ☐ CONCRETE ☐ SOIL ☒ SURFACE COVERING DEPTH: --- IN

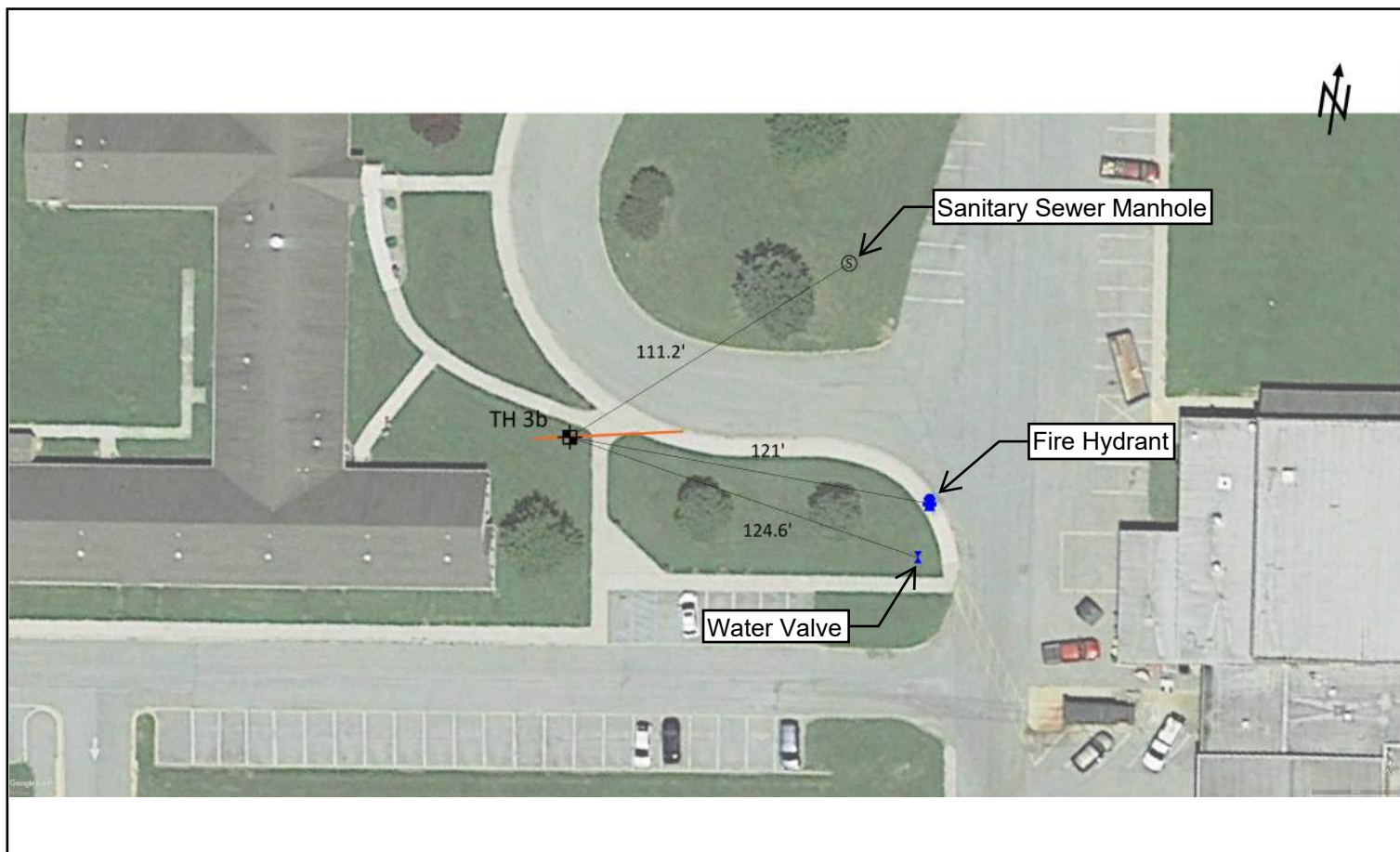
GENERALIZED SOIL PROFILE: SELECT FILL ☐ ROCK ☐ SAND ☒ CLAY ☐ OTHER ---

BENCHMARK ELEVATION: 54.51' DESCRIPTION: CATCH BASIN

BENCHMARK ELEVATION: --- DESCRIPTION: ---



----- TEST HOLE PLAN -----



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VACUUM EXCAVATION DATA SHEET
ENGLISH UNITS

SOFTDIG PROJECT #: 196140 TEST HOLE #: 4 CLIENT: EDIS DATE: 10/29/19
ONE-CALL PERMIT: --- CREW: T. JOHNSON TRUCK #: 164
CITY / COUNTY / STATE: MIDDLETOWN, NEW CASTLE COUNTY, DELAWARE ROAD: S BROAD ST
GENERAL LOCATION: IN FRONT OF APPOQUINIMINK PRESCHOOL CENTER ANTICIPATED UTILITY: ---

----- TEST HOLE INFORMATION -----

ACTUAL SIZE, COLOR, MATERIAL, TYPE OF UTILITY 6" BLACK METAL WATER PIPE

UTILITY OWNER: EVERETT MEREDITH MIDDLE SCHOOL DESIGNATION COLOR: BLUE

OBSERVED UTILITY CONDITION: GOOD ☒ POOR ☐ OTHER ☐

TEST HOLE MARKED BY: PK NAIL ☐ HUB ☒ X MARK ☐

PORTION OF UTILITY EXPOSED TOP ☒ HALF ☐ SIDE ☐

1) REFERENCE ELEVATION 58.84'

2) UTILITY TOP ELEVATION 54.33'

3) UTILITY BOTTOM ELEVATION ---

4) WIDTH --- TYPE: FORMED ☐ ROUGH POUR ☐ RACKED ☐

5) UTILITY TOP DEPTH FROM REFERENCE 4.51'

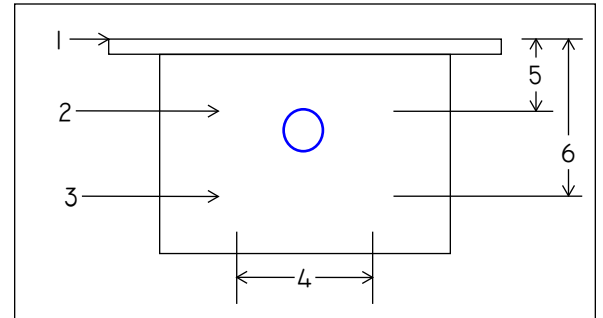
6) UTILITY BOTTOM DEPTH FROM REFERENCE ---

SURFACE COVERING TYPE: ASPHALT ☐ CONCRETE ☐ SOIL ☒ SURFACE COVERING DEPTH: --- IN

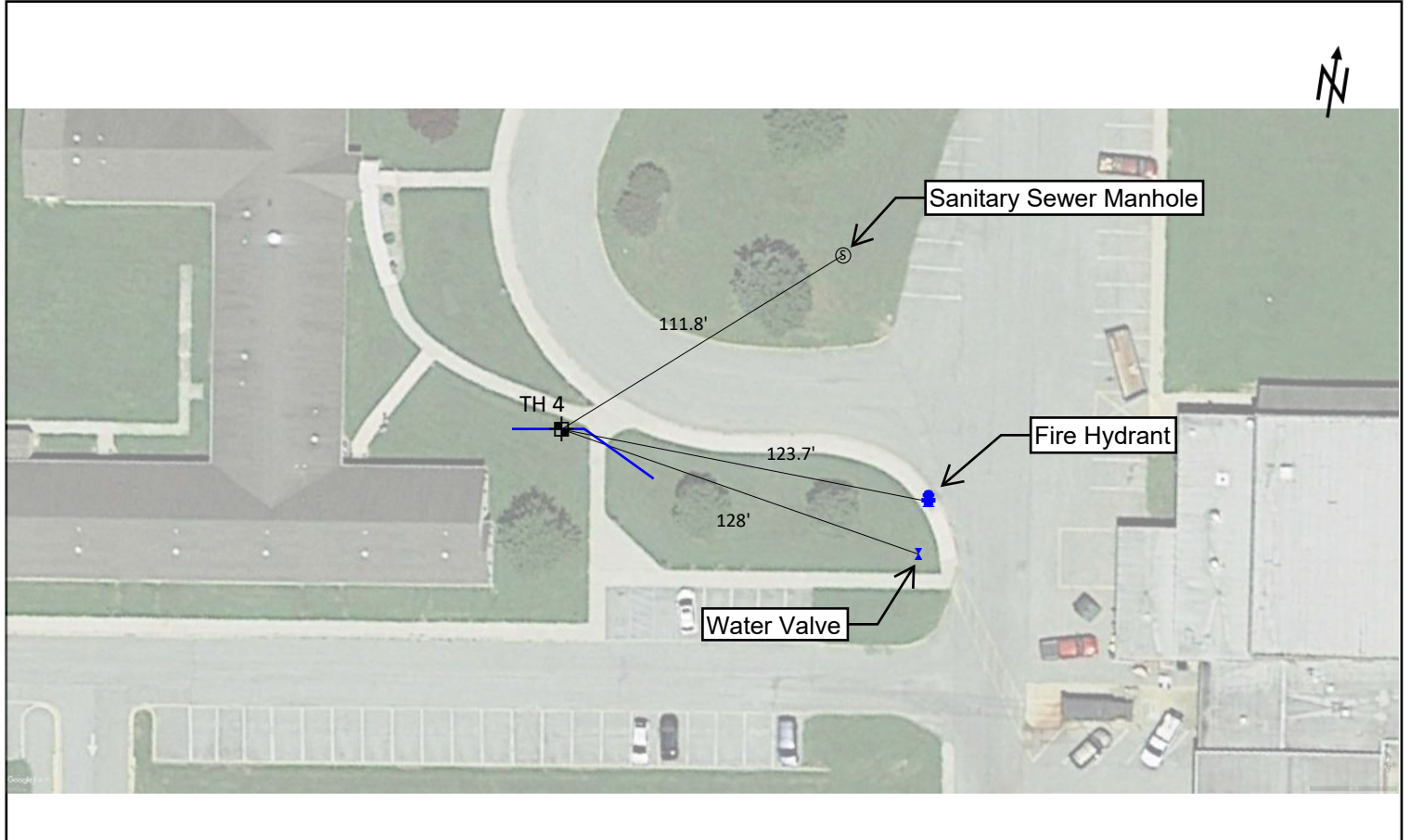
GENERALIZED SOIL PROFILE: SELECT FILL ☐ ROCK ☐ SAND ☒ CLAY ☐ OTHER ---

BENCHMARK ELEVATION: 54.51' DESCRIPTION: CATCH BASIN

BENCHMARK ELEVATION: --- DESCRIPTION: ---



----- TEST HOLE PLAN -----



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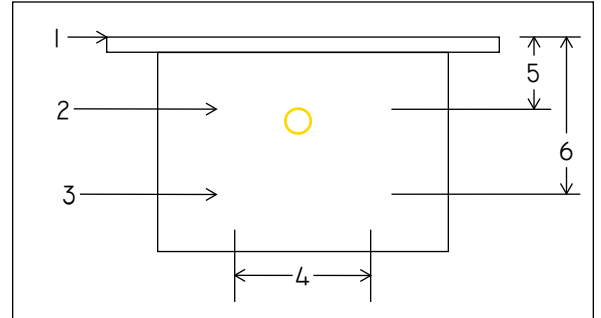
PHONE NO: (877)SOFTDIG
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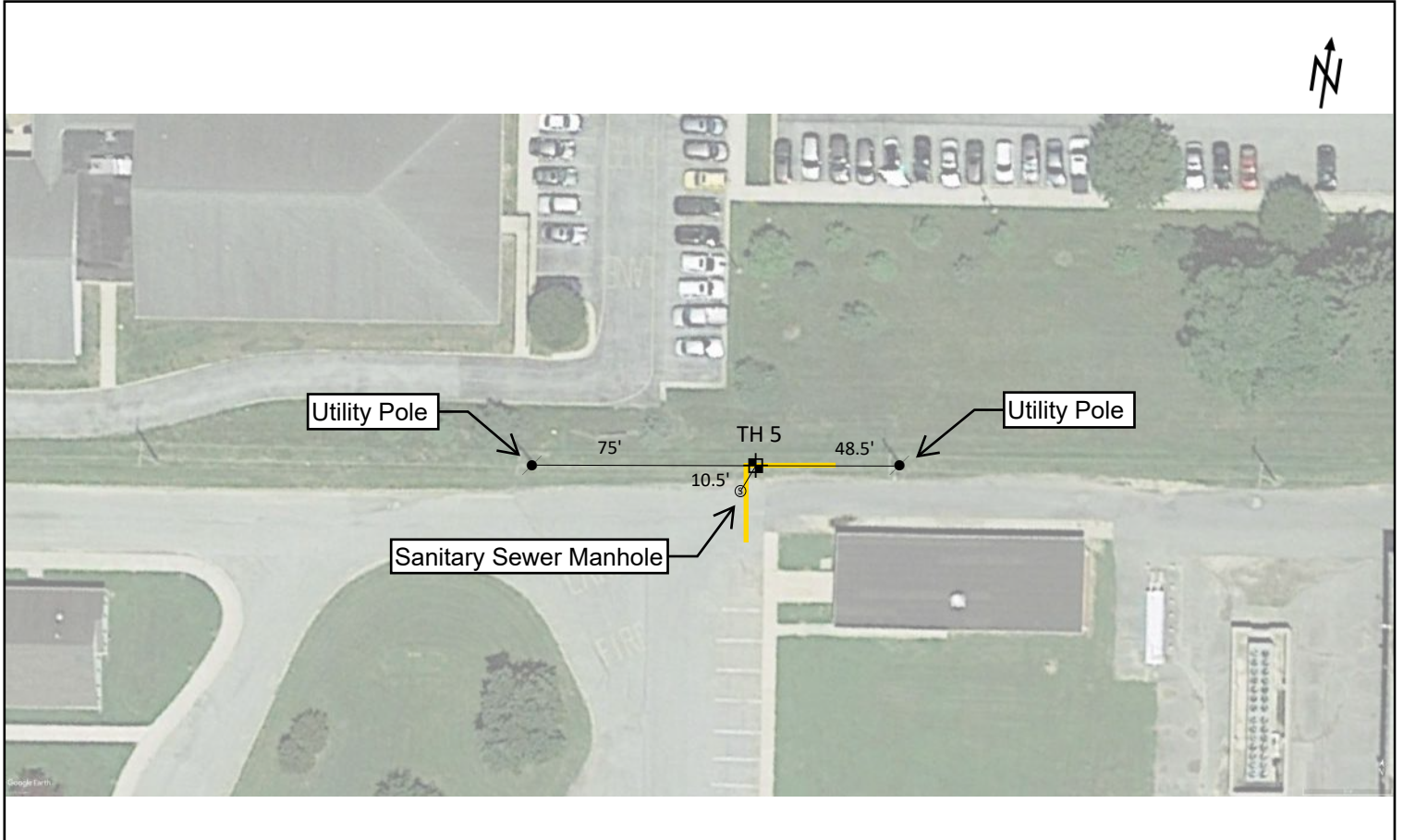
SOFTDIG PROJECT #: 196140 TEST HOLE #: 5 CLIENT: EDIS DATE: 10/29/19
ONE-CALL PERMIT: --- CREW: T. JOHNSON TRUCK #: 164
CITY / COUNTY / STATE: MIDDLETOWN, NEW CASTLE COUNTY, DELAWARE ROAD: S BROAD ST
GENERAL LOCATION: NEAR THE SCHOOL'S STORAGE BUILDING ANTICIPATED UTILITY: ---

----- TEST HOLE INFORMATION -----

ACTUAL SIZE, COLOR, MATERIAL, TYPE OF UTILITY 2" YELLOW PLASTIC GAS PIPE
UTILITY OWNER: EVERETT MEREDITH MIDDLE SCHOOL DESIGNATION COLOR: YELLOW
OBSERVED UTILITY CONDITION: GOOD ☒ POOR ☐ OTHER ☐
TEST HOLE MARKED BY: PK NAIL ☐ HUB ☒ X MARK ☐
PORTION OF UTILITY EXPOSED TOP ☒ HALF ☐ SIDE ☐
1) REFERENCE ELEVATION 56.38'
2) UTILITY TOP ELEVATION 53.56'
3) UTILITY BOTTOM ELEVATION ---
4) WIDTH --- TYPE: FORMED ☐ ROUGH POUR ☐ RACKED ☐
5) UTILITY TOP DEPTH FROM REFERENCE 2.82'
6) UTILITY BOTTOM DEPTH FROM REFERENCE ---
SURFACE COVERING TYPE: ASPHALT ☐ CONCRETE ☐ SOIL ☒ SURFACE COVERING DEPTH: --- IN
GENERALIZED SOIL PROFILE: SELECT FILL ☐ ROCK ☐ SAND ☒ CLAY ☐ OTHER ---
BENCHMARK ELEVATION: 54.51' DESCRIPTION: CATCH BASIN
BENCHMARK ELEVATION: --- DESCRIPTION: ---



----- TEST HOLE PLAN -----



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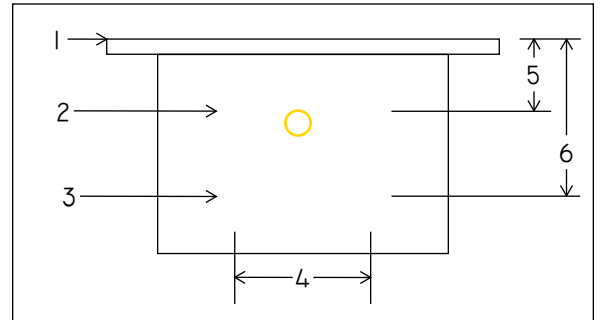
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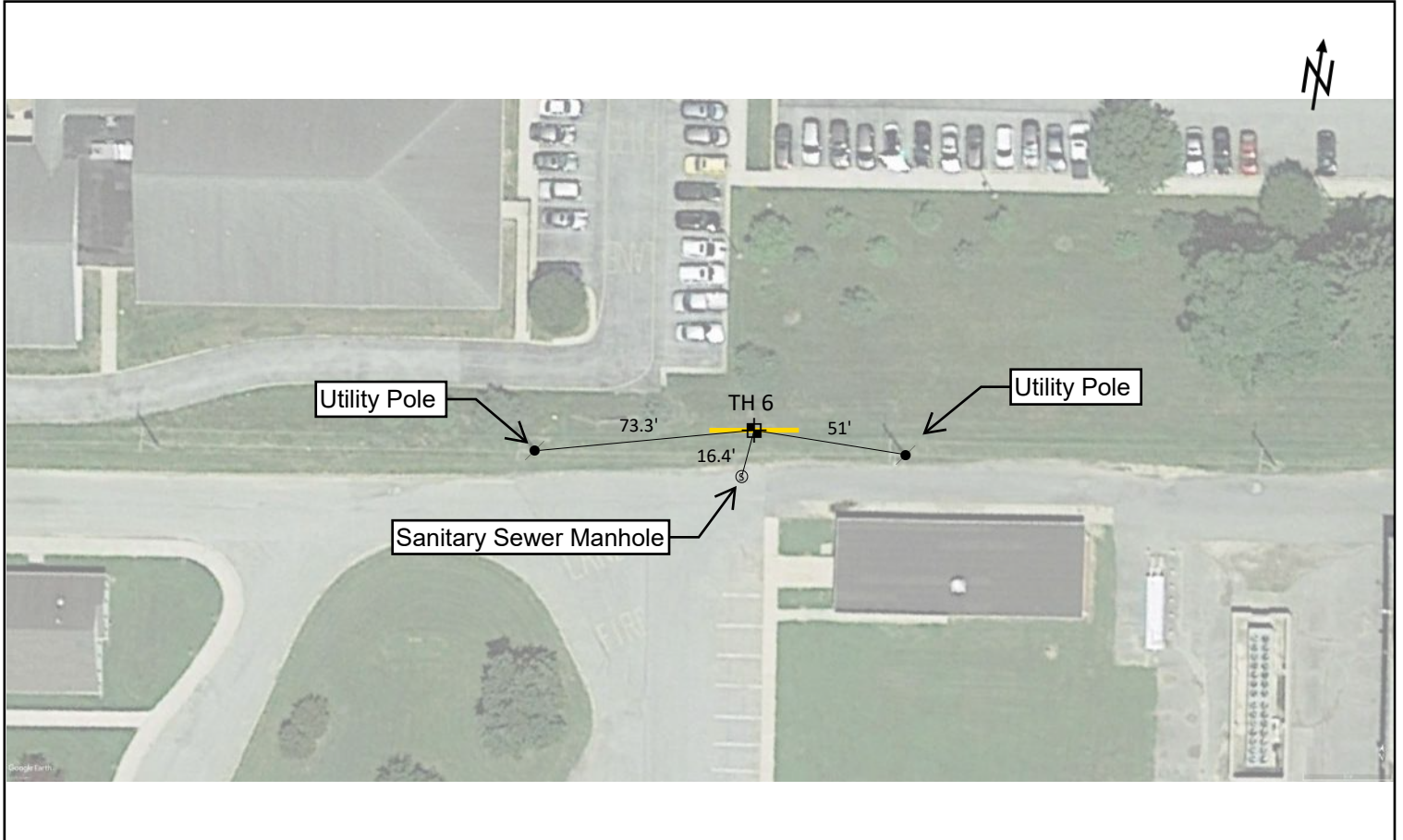
SOFTDIG PROJECT #: 196140 TEST HOLE #: 6 CLIENT: EDIS DATE: 10/29/19
ONE-CALL PERMIT: --- CREW: T. JOHNSON TRUCK #: 164
CITY / COUNTY / STATE: MIDDLETOWN, NEW CASTLE COUNTY, DELAWARE ROAD: S BROAD ST
GENERAL LOCATION: NEAR THE SCHOOL'S STORAGE BUILDING ANTICIPATED UTILITY: ---

----- TEST HOLE INFORMATION -----

ACTUAL SIZE, COLOR, MATERIAL, TYPE OF UTILITY 2" YELLOW PLASTIC GAS PIPE
UTILITY OWNER: EVERETT MEREDITH MIDDLE SCHOOL DESIGNATION COLOR: YELLOW
OBSERVED UTILITY CONDITION: GOOD ☒ POOR ☐ OTHER ☐
TEST HOLE MARKED BY: PK NAIL ☐ HUB ☒ X MARK ☐
PORTION OF UTILITY EXPOSED TOP ☒ HALF ☐ SIDE ☐
1) REFERENCE ELEVATION 57.12'
2) UTILITY TOP ELEVATION 54.60'
3) UTILITY BOTTOM ELEVATION ---
4) WIDTH --- TYPE: FORMED ☐ ROUGH POUR ☐ RACKED ☐
5) UTILITY TOP DEPTH FROM REFERENCE 2.52'
6) UTILITY BOTTOM DEPTH FROM REFERENCE ---
SURFACE COVERING TYPE: ASPHALT ☐ CONCRETE ☐ SOIL ☒ SURFACE COVERING DEPTH: --- IN
GENERALIZED SOIL PROFILE: SELECT FILL ☐ ROCK ☐ SAND ☒ CLAY ☐ OTHER ---
BENCHMARK ELEVATION: 54.51' DESCRIPTION: CATCH BASIN
BENCHMARK ELEVATION: --- DESCRIPTION: ---



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SOFTDIG PROJECT #: 196140 TEST HOLE #: 7 CLIENT: EDIS DATE: 10/29/19
ONE-CALL PERMIT: --- CREW: T. JOHNSON TRUCK #: 164
CITY / COUNTY / STATE: MIDDLETOWN, NEW CASTLE COUNTY, DELAWARE ROAD: S BROAD ST
GENERAL LOCATION: IN FRONT OF THE SCHOOL NEAR THE ELECTRIC TRANSFORMER ANTICIPATED UTILITY: ---

----- TEST HOLE INFORMATION -----

ACTUAL SIZE, COLOR, MATERIAL, TYPE OF UTILITY (3) 1" RED WITH BLACK STRIPES ELECTRIC CABLES (DIRECT BURY)

UTILITY OWNER: EVERETT MEREDITH MIDDLE SCHOOL DESIGNATION COLOR: RED

OBSERVED UTILITY CONDITION: GOOD ☒ POOR ☐ OTHER ☐

TEST HOLE MARKED BY: PK NAIL ☐ HUB ☒ X MARK ☐

PORTION OF UTILITY EXPOSED TOP ☒ HALF ☐ SIDE ☐

1) REFERENCE ELEVATION 56.14'

2) UTILITY TOP ELEVATION 53.22'

3) UTILITY BOTTOM ELEVATION ---

4) WIDTH --- TYPE: FORMED ☐ ROUGH POUR ☐ RACKED ☐

5) UTILITY TOP DEPTH FROM REFERENCE 2.92'

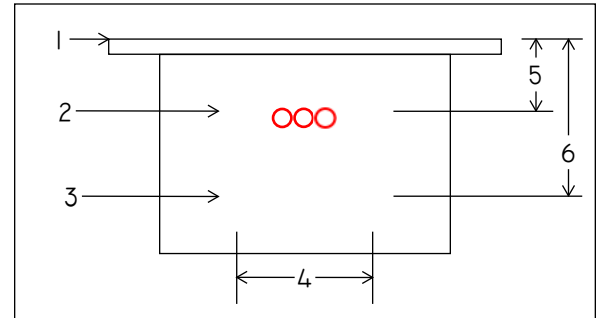
6) UTILITY BOTTOM DEPTH FROM REFERENCE ---

SURFACE COVERING TYPE: ASPHALT ☐ CONCRETE ☐ SOIL ☒ SURFACE COVERING DEPTH: --- IN

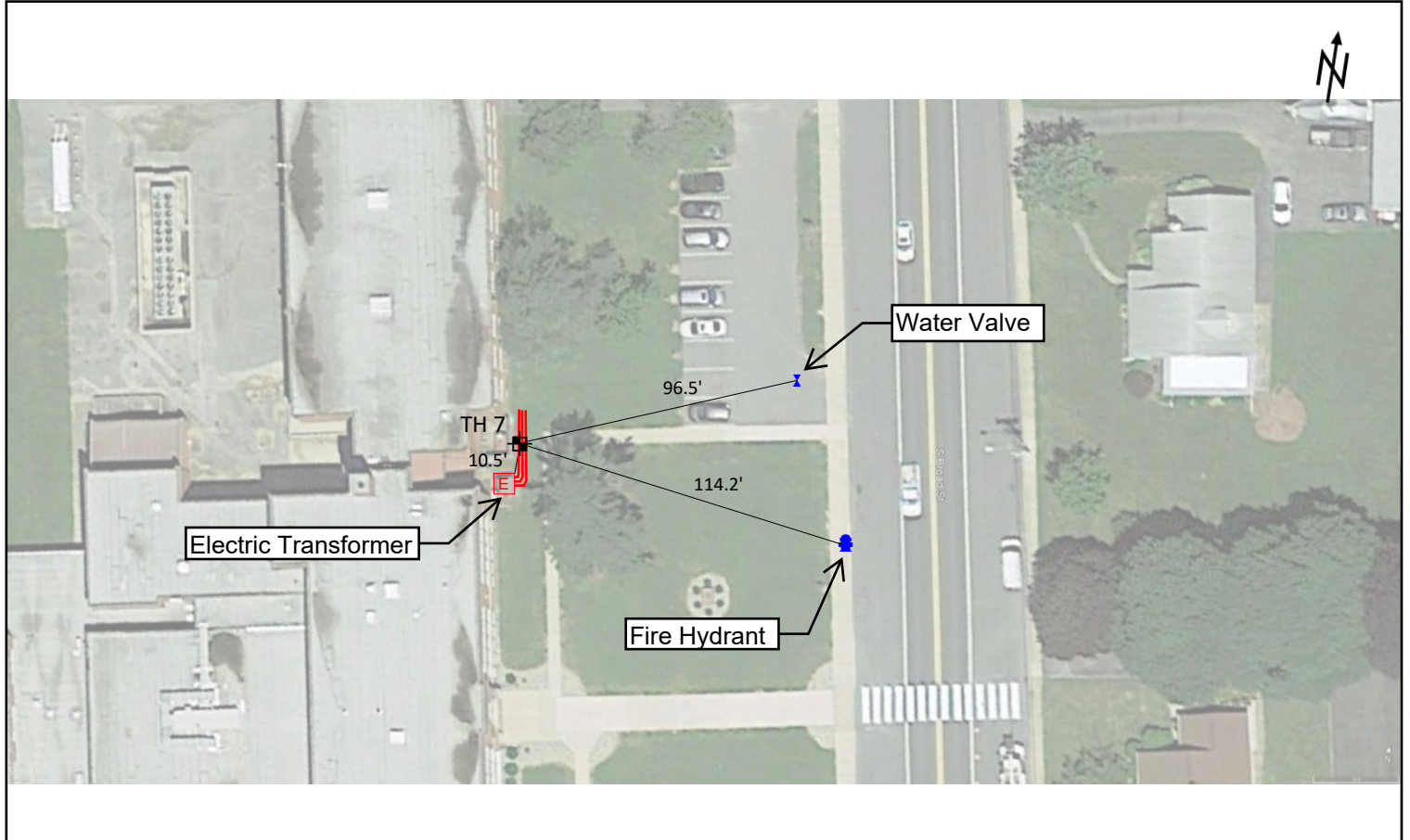
GENERALIZED SOIL PROFILE: SELECT FILL ☐ ROCK ☐ SAND ☒ CLAY ☐ OTHER ---

BENCHMARK ELEVATION: 54.27' DESCRIPTION: CATCH BASIN

BENCHMARK ELEVATION: --- DESCRIPTION: ---



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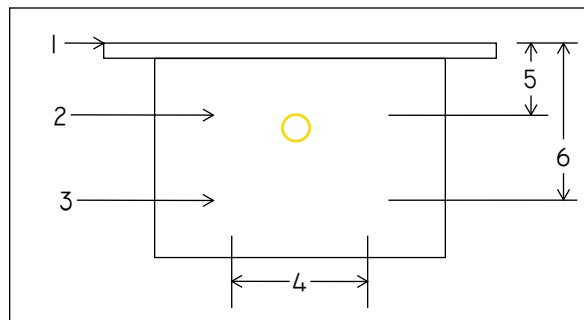
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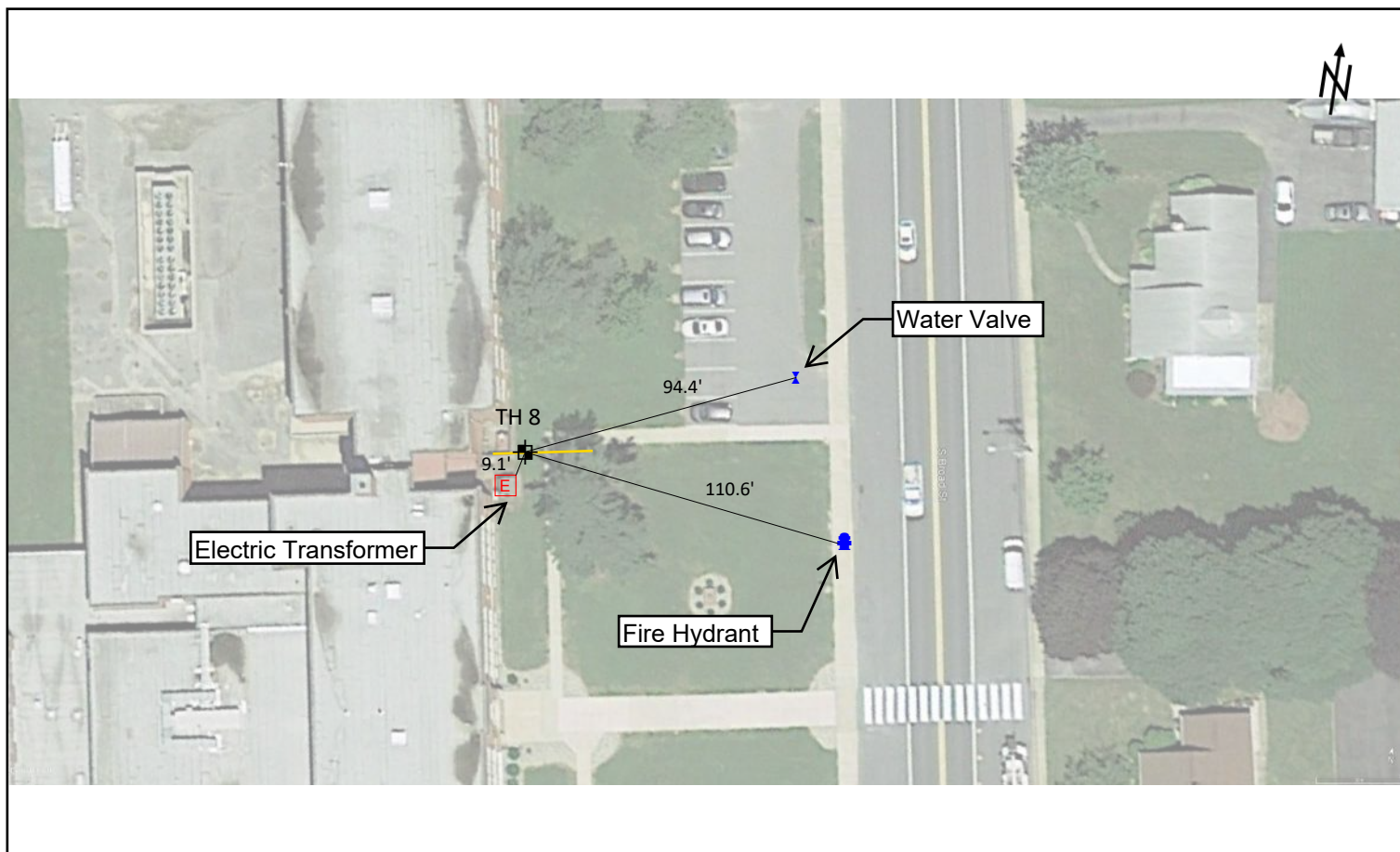
SOFTDIG PROJECT #: 196140 TEST HOLE #: 8 CLIENT: EDIS DATE: 10/29/19
ONE-CALL PERMIT: --- CREW: T. JOHNSON TRUCK #: 164
CITY / COUNTY / STATE: MIDDLETOWN, NEW CASTLE COUNTY, DELAWARE ROAD: S BROAD ST
GENERAL LOCATION: IN FRONT OF THE SCHOOL NEAR THE ELECTRIC TRANSFORMER ANTICIPATED UTILITY: ---

----- TEST HOLE INFORMATION -----

ACTUAL SIZE, COLOR, MATERIAL, TYPE OF UTILITY 2 1/2" YELLOW PLASTIC GAS PIPE
UTILITY OWNER: EVERETT MEREDITH MIDDLE SCHOOL DESIGNATION COLOR: YELLOW
OBSERVED UTILITY CONDITION: GOOD ☒ POOR ☐ OTHER ☐
TEST HOLE MARKED BY: PK NAIL ☐ HUB ☒ X MARK ☐
PORTION OF UTILITY EXPOSED TOP ☒ HALF ☐ SIDE ☐
1) REFERENCE ELEVATION 56.11'
2) UTILITY TOP ELEVATION 54.20'
3) UTILITY BOTTOM ELEVATION ---
4) WIDTH --- TYPE: FORMED ☐ ROUGH POUR ☐ RACKED ☐
5) UTILITY TOP DEPTH FROM REFERENCE 1.91'
6) UTILITY BOTTOM DEPTH FROM REFERENCE ---
SURFACE COVERING TYPE: ASPHALT ☐ CONCRETE ☐ SOIL ☒ SURFACE COVERING DEPTH: --- IN
GENERALIZED SOIL PROFILE: SELECT FILL ☐ ROCK ☐ SAND ☒ CLAY ☐ OTHER ---
BENCHMARK ELEVATION: 54.27' DESCRIPTION: CATCH BASIN
BENCHMARK ELEVATION: --- DESCRIPTION: ---



----- TEST HOLE PLAN -----



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SOFTDIG PROJECT #: 196140 TEST HOLE #: 9 CLIENT: EDIS DATE: 10/29/19
ONE-CALL PERMIT: --- CREW: T. JOHNSON TRUCK #: 164
CITY / COUNTY / STATE: MIDDLETOWN, NEW CASTLE COUNTY, DELAWARE ROAD: S BROAD ST
GENERAL LOCATION: IN FRONT OF THE SCHOOL NEAR THE ELECTRIC TRANSFORMER ANTICIPATED UTILITY: ---

----- TEST HOLE INFORMATION -----

ACTUAL SIZE, COLOR, MATERIAL, TYPE OF UTILITY 4" BLACK METAL ELECTRIC CONDUIT

UTILITY OWNER: EVERETT MEREDITH MIDDLE SCHOOL DESIGNATION COLOR: RED

OBSERVED UTILITY CONDITION: GOOD ☒ POOR ☐ OTHER ☐

TEST HOLE MARKED BY: PK NAIL ☐ HUB ☒ X MARK ☐

PORTION OF UTILITY EXPOSED TOP ☒ HALF ☐ SIDE ☐

1) REFERENCE ELEVATION 56.01'

2) UTILITY TOP ELEVATION 50.70'

3) UTILITY BOTTOM ELEVATION ---

4) WIDTH --- TYPE: FORMED ☐ ROUGH POUR ☐ RACKED ☐

5) UTILITY TOP DEPTH FROM REFERENCE 5.31'

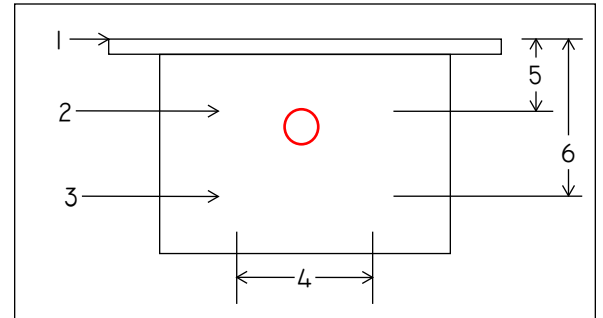
6) UTILITY BOTTOM DEPTH FROM REFERENCE ---

SURFACE COVERING TYPE: ASPHALT ☐ CONCRETE ☐ SOIL ☒ SURFACE COVERING DEPTH: --- IN

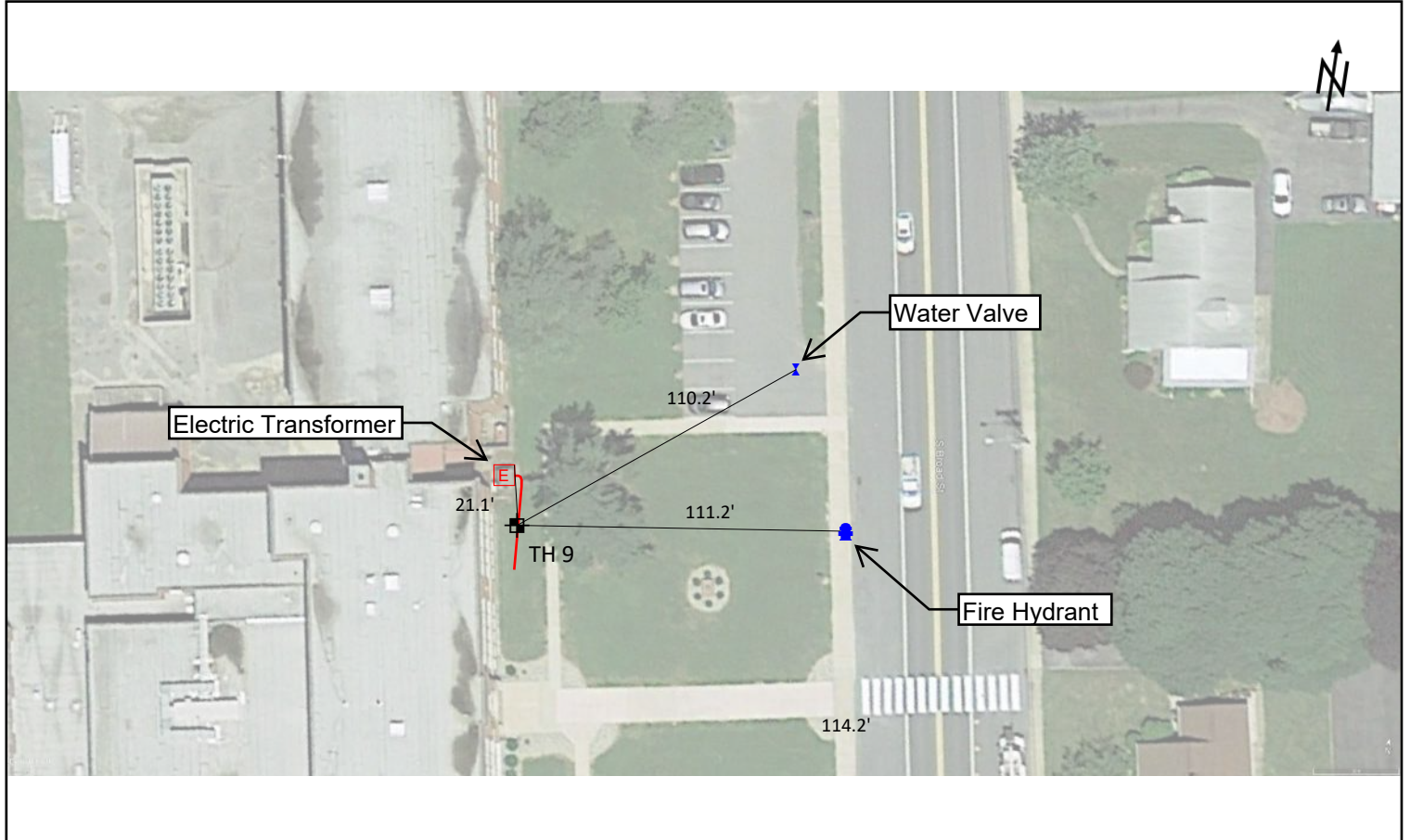
GENERALIZED SOIL PROFILE: SELECT FILL ☐ ROCK ☒ SAND ☒ CLAY ☐ OTHER ---

BENCHMARK ELEVATION: 54.27' DESCRIPTION: CATCH BASIN

BENCHMARK ELEVATION: --- DESCRIPTION: ---



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SOFTDIG PROJECT #: 196140 TEST HOLE #: 10 CLIENT: EDIS DATE: 10/29/19
ONE-CALL PERMIT: --- CREW: D. POWELL TRUCK #: 186
CITY / COUNTY / STATE: MIDDLETOWN, NEW CASTLE COUNTY, DELAWARE ROAD: S BROAD ST
GENERAL LOCATION: IN GRASS ALONG S BROAD ST NEAR THE SCHOOL'S FLAG POLE ANTICIPATED UTILITY: ---

----- TEST HOLE INFORMATION -----

ACTUAL SIZE, COLOR, MATERIAL, TYPE OF UTILITY 6" BLACK METAL WATER PIPE

UTILITY OWNER: EVERETT MEREDITH MIDDLE SCHOOL DESIGNATION COLOR: BLUE

OBSERVED UTILITY CONDITION: GOOD ☒ POOR ☐ OTHER ☐

TEST HOLE MARKED BY: PK NAIL ☐ HUB ☒ X MARK ☐

PORTION OF UTILITY EXPOSED TOP ☒ HALF ☐ SIDE ☐

1) REFERENCE ELEVATION 55.26'

2) UTILITY TOP ELEVATION 51.70'

3) UTILITY BOTTOM ELEVATION ---

4) WIDTH --- TYPE: FORMED ☐ ROUGH POUR ☐ RACKED ☐

5) UTILITY TOP DEPTH FROM REFERENCE 3.56'

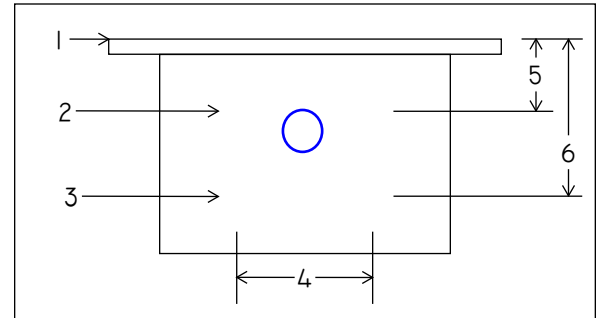
6) UTILITY BOTTOM DEPTH FROM REFERENCE ---

SURFACE COVERING TYPE: ASPHALT ☐ CONCRETE ☐ SOIL ☒ SURFACE COVERING DEPTH: --- IN

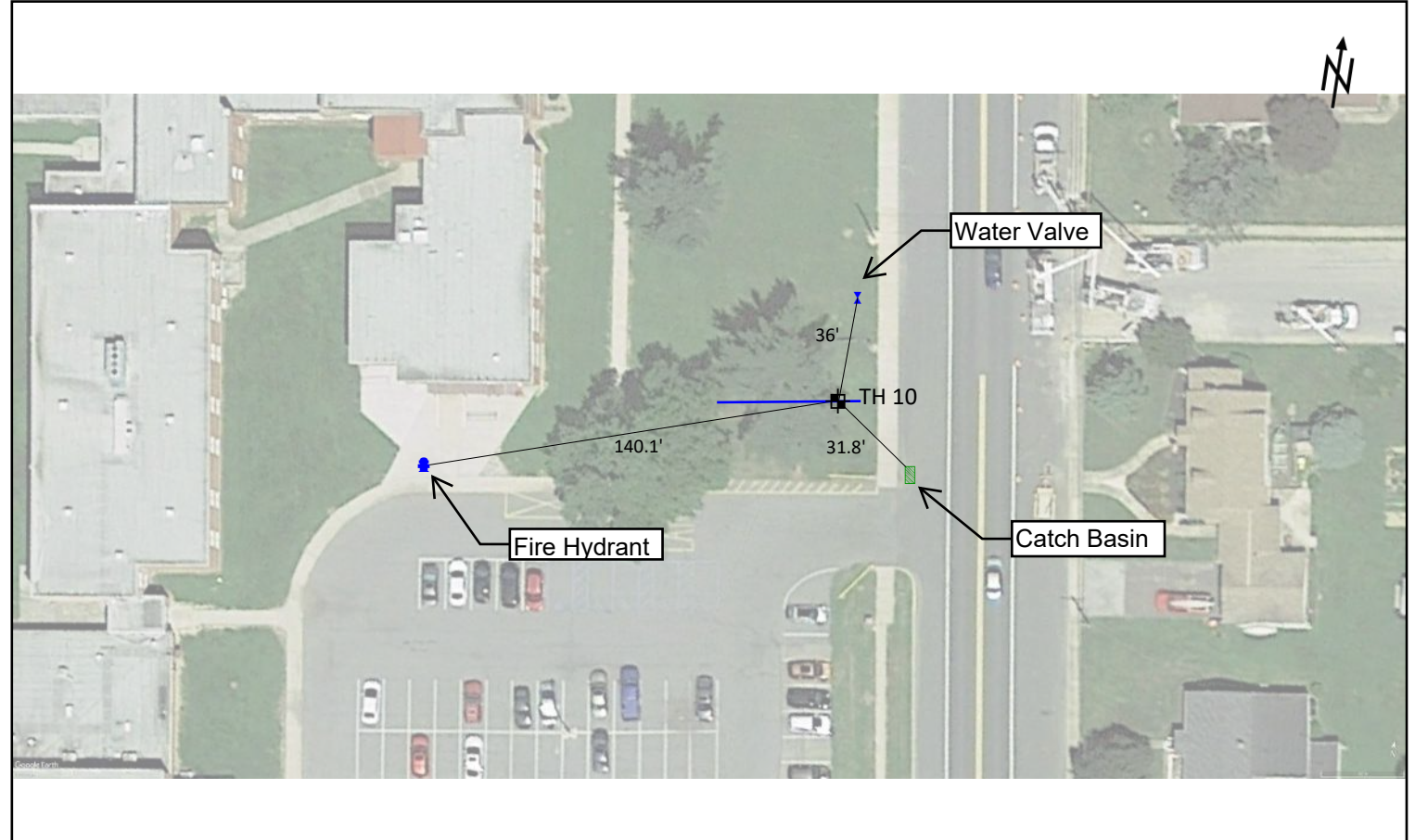
GENERALIZED SOIL PROFILE: SELECT FILL ☐ ROCK ☐ SAND ☐ CLAY ☒ OTHER ---

BENCHMARK ELEVATION: 54.27' DESCRIPTION: CATCH BASIN

BENCHMARK ELEVATION: --- DESCRIPTION: ---



----- TEST HOLE PLAN -----



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SOFTDIG PROJECT #: 196140 TEST HOLE #: 11 CLIENT: EDIS DATE: 10/29/19
ONE-CALL PERMIT: --- CREW: D. POWELL TRUCK #: 186
CITY / COUNTY / STATE: MIDDLETOWN, NEW CASTLE COUNTY, DELAWARE ROAD: S BROAD ST
GENERAL LOCATION: IN GRASS ALONG S BROAD ST NEAR THE SCHOOL'S FLAG POLE ANTICIPATED UTILITY: ---

----- TEST HOLE INFORMATION -----

ACTUAL SIZE, COLOR, MATERIAL, TYPE OF UTILITY 6" BLACK METAL WATER PIPE

UTILITY OWNER: EVERETT MEREDITH MIDDLE SCHOOL DESIGNATION COLOR: BLUE

OBSERVED UTILITY CONDITION: GOOD ☒ POOR ☐ OTHER ☐

TEST HOLE MARKED BY: PK NAIL ☐ HUB ☒ X MARK ☐

PORTION OF UTILITY EXPOSED TOP ☒ HALF ☐ SIDE ☐

1) REFERENCE ELEVATION 55.31'

2) UTILITY TOP ELEVATION 51.43'

3) UTILITY BOTTOM ELEVATION ---

4) WIDTH --- TYPE: FORMED ☐ ROUGH POUR ☐ RACKED ☐

5) UTILITY TOP DEPTH FROM REFERENCE 3.88'

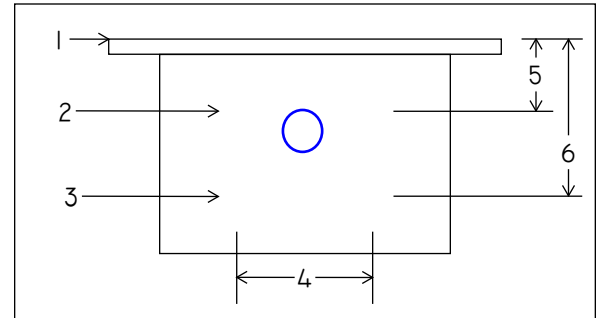
6) UTILITY BOTTOM DEPTH FROM REFERENCE ---

SURFACE COVERING TYPE: ASPHALT ☐ CONCRETE ☐ SOIL ☒ SURFACE COVERING DEPTH: --- IN

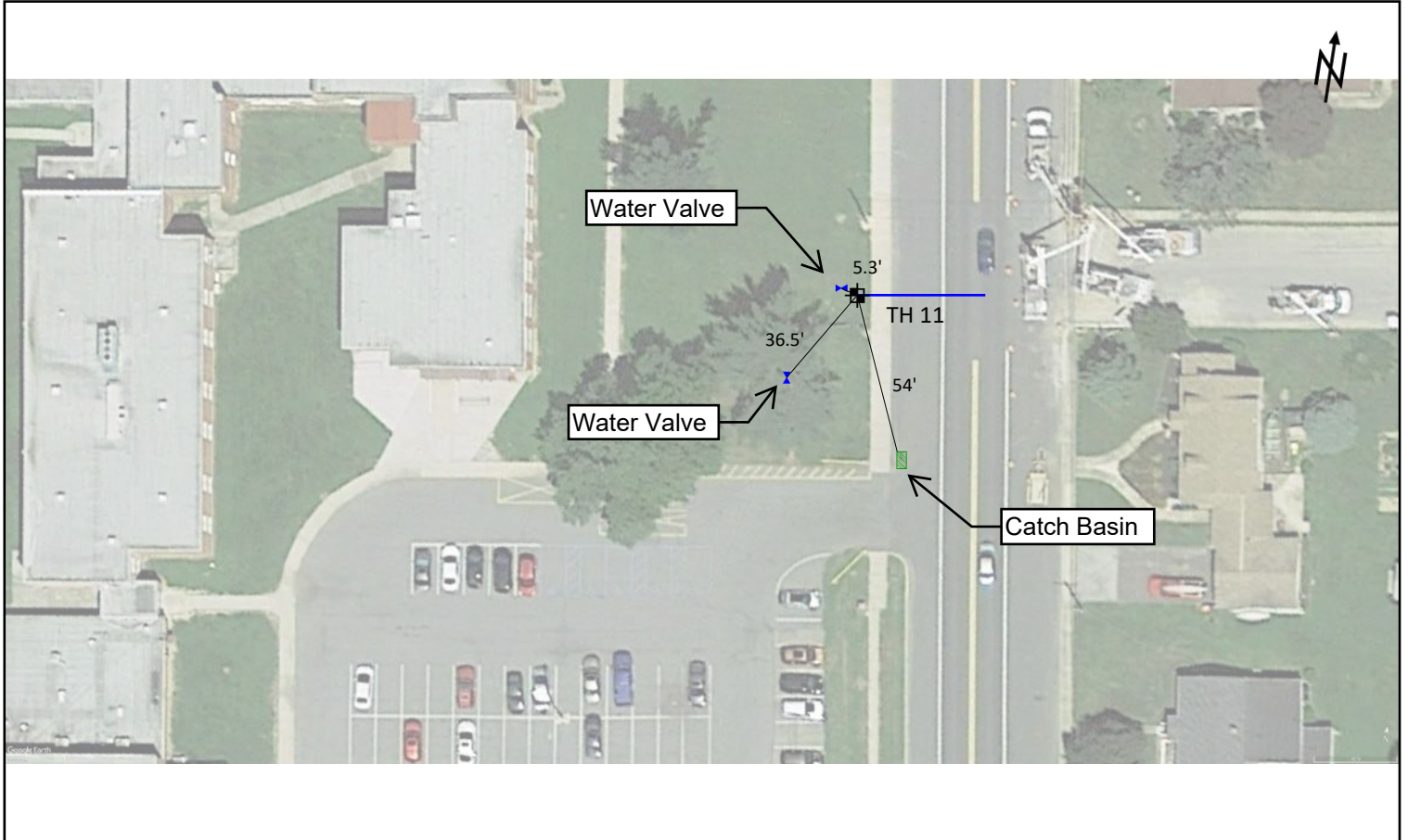
GENERALIZED SOIL PROFILE: SELECT FILL ☐ ROCK ☐ SAND ☐ CLAY ☒ OTHER ---

BENCHMARK ELEVATION: 54.27' DESCRIPTION: CATCH BASIN

BENCHMARK ELEVATION: --- DESCRIPTION: ---



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SOFTDIG PROJECT #: 196140 TEST HOLE #: 12 CLIENT: EDIS DATE: 10/29/19
ONE-CALL PERMIT: --- CREW: D. POWELL TRUCK #: 186
CITY / COUNTY / STATE: MIDDLETOWN, NEW CASTLE COUNTY, DELAWARE ROAD: S BROAD ST
GENERAL LOCATION: IN GRASS ALONG S BROAD ST NEAR THE SCHOOL'S FLAG POLE ANTICIPATED UTILITY: ---

----- TEST HOLE INFORMATION -----

ACTUAL SIZE, COLOR, MATERIAL, TYPE OF UTILITY 10" BLACK METAL WATER MAIN

UTILITY OWNER: EVERETT MEREDITH MIDDLE SCHOOL DESIGNATION COLOR: BLUE

OBSERVED UTILITY CONDITION: GOOD ☒ POOR ☐ OTHER ☐

TEST HOLE MARKED BY: PK NAIL ☐ HUB ☒ X MARK ☐

PORTION OF UTILITY EXPOSED TOP ☒ HALF ☐ SIDE ☐

1) REFERENCE ELEVATION 55.41'

2) UTILITY TOP ELEVATION 51.93'

3) UTILITY BOTTOM ELEVATION ---

4) WIDTH --- TYPE: FORMED ☐ ROUGH POUR ☐ RACKED ☐

5) UTILITY TOP DEPTH FROM REFERENCE 3.48'

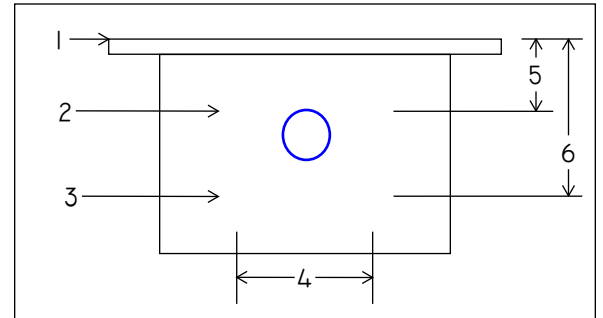
6) UTILITY BOTTOM DEPTH FROM REFERENCE ---

SURFACE COVERING TYPE: ASPHALT ☐ CONCRETE ☐ SOIL ☒ SURFACE COVERING DEPTH: --- IN

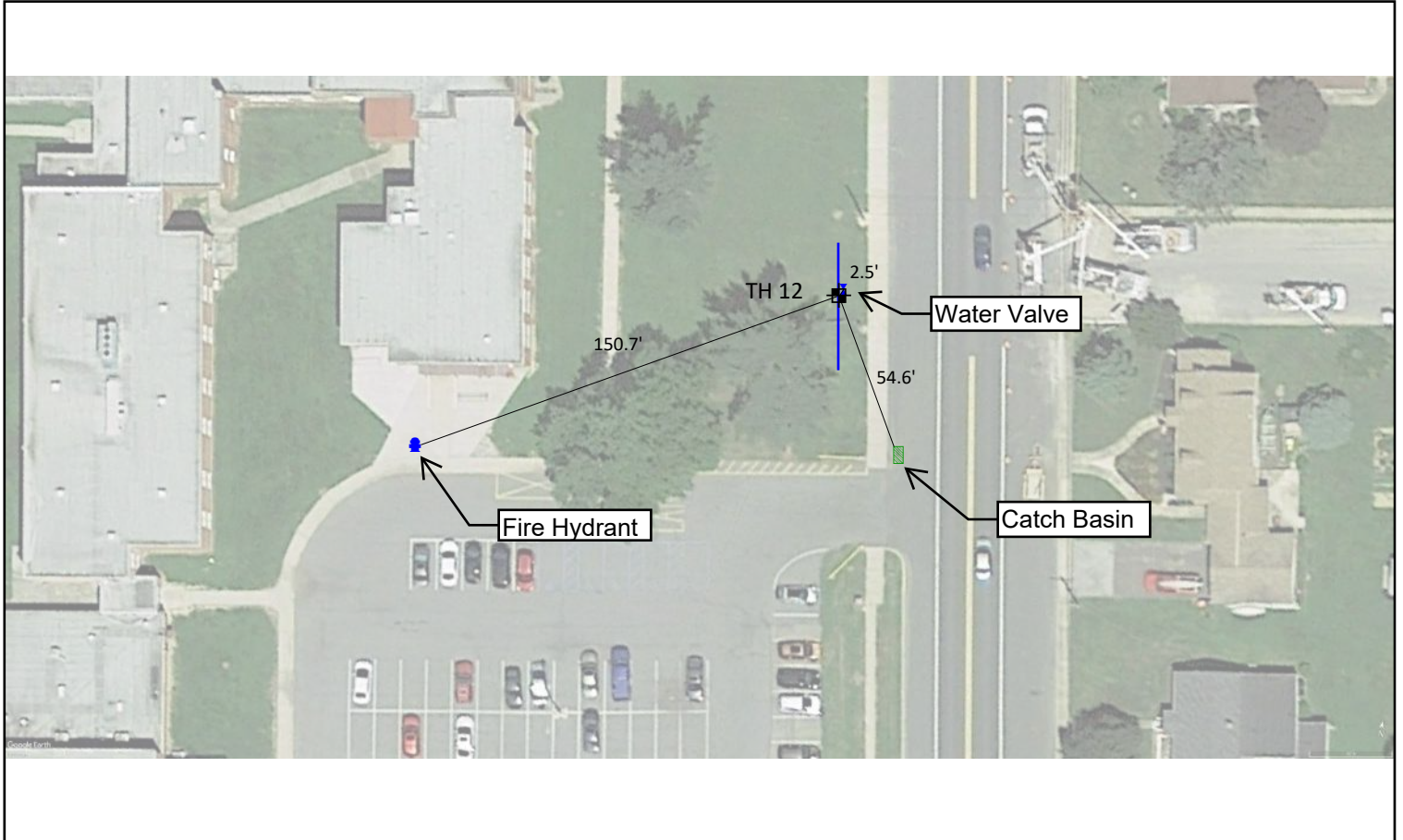
GENERALIZED SOIL PROFILE: SELECT FILL ☐ ROCK ☐ SAND ☐ CLAY ☒ OTHER ---

BENCHMARK ELEVATION: 54.27' DESCRIPTION: CATCH BASIN

BENCHMARK ELEVATION: --- DESCRIPTION: ---



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SOFTDIG PROJECT #: 196140 TEST HOLE #: 13 CLIENT: EDIS DATE: 10/29/19
ONE-CALL PERMIT: --- CREW: D. POWELL TRUCK #: 186
CITY / COUNTY / STATE: MIDDLETOWN, NEW CASTLE COUNTY, DELAWARE ROAD: S BROAD ST
GENERAL LOCATION: IN GRASS ALONG S BROAD ST NEAR THE SCHOOL'S FLAG POLE ANTICIPATED UTILITY: ---

----- TEST HOLE INFORMATION -----

ACTUAL SIZE, COLOR, MATERIAL, TYPE OF UTILITY 6" BROWN VITRIFIED CLAY SANITARY SEWER PIPE

UTILITY OWNER: EVERETT MEREDITH MIDDLE SCHOOL DESIGNATION COLOR: GREEN

OBSERVED UTILITY CONDITION: GOOD ☒ POOR ☐ OTHER ☐

TEST HOLE MARKED BY: PK NAIL ☐ HUB ☒ X MARK ☐

PORTION OF UTILITY EXPOSED TOP ☒ HALF ☐ SIDE ☐

1) REFERENCE ELEVATION 55.46'

2) UTILITY TOP ELEVATION 48.56'

3) UTILITY BOTTOM ELEVATION ---

4) WIDTH --- TYPE: FORMED ☐ ROUGH POUR ☐ RACKED ☐

5) UTILITY TOP DEPTH FROM REFERENCE 6.90'

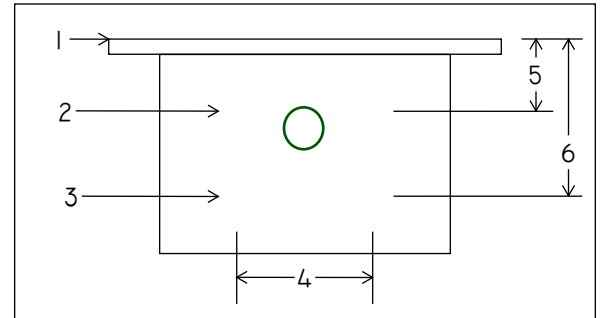
6) UTILITY BOTTOM DEPTH FROM REFERENCE ---

SURFACE COVERING TYPE: ASPHALT ☐ CONCRETE ☐ SOIL ☒ SURFACE COVERING DEPTH: --- IN

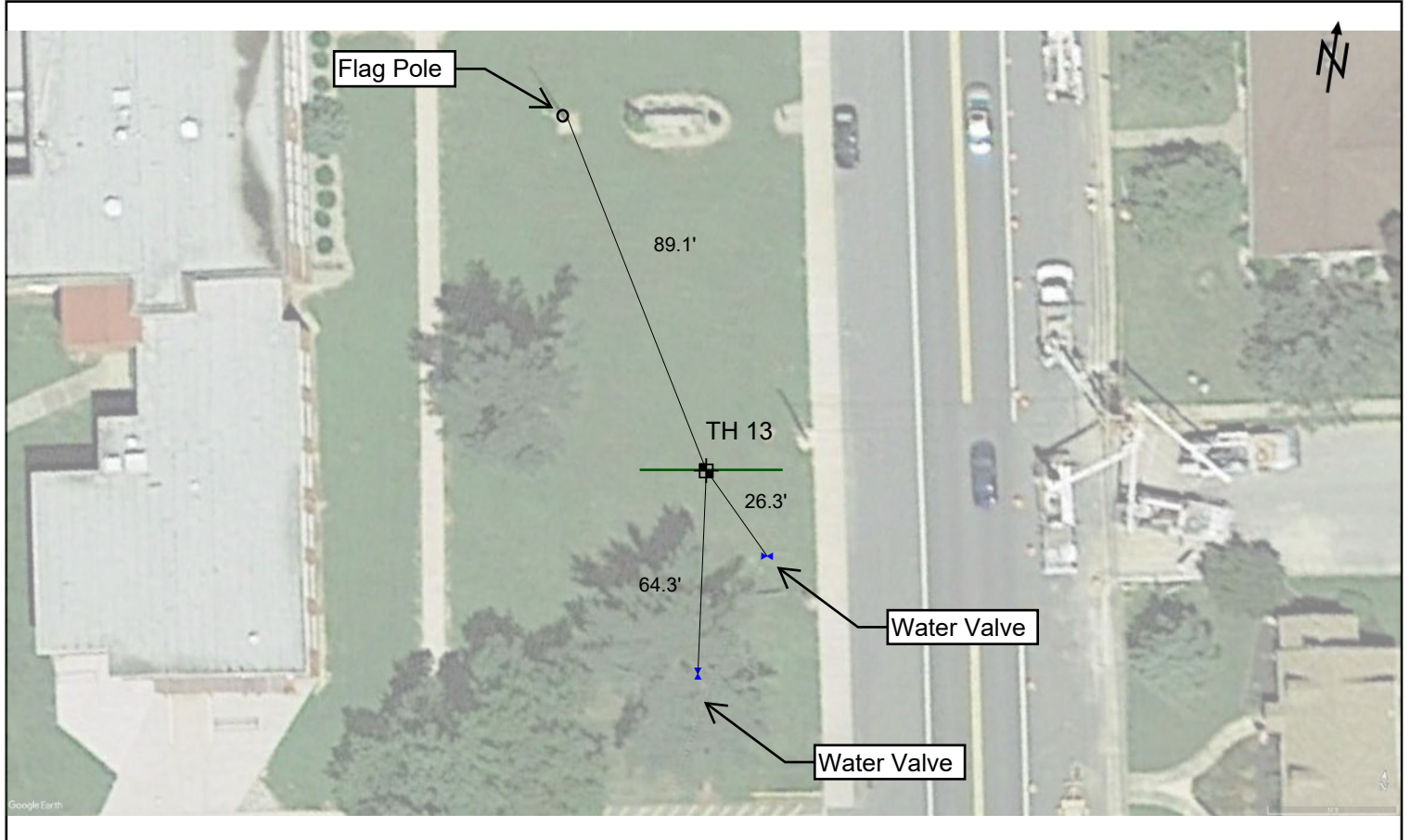
GENERALIZED SOIL PROFILE: SELECT FILL ☐ ROCK ☐ SAND ☐ CLAY ☒ OTHER ---

BENCHMARK ELEVATION: 54.27' DESCRIPTION: CATCH BASIN

BENCHMARK ELEVATION: --- DESCRIPTION: ---



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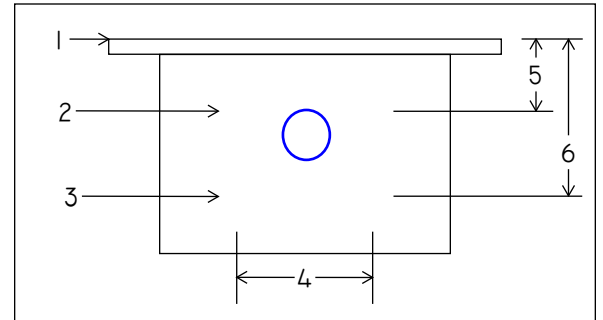
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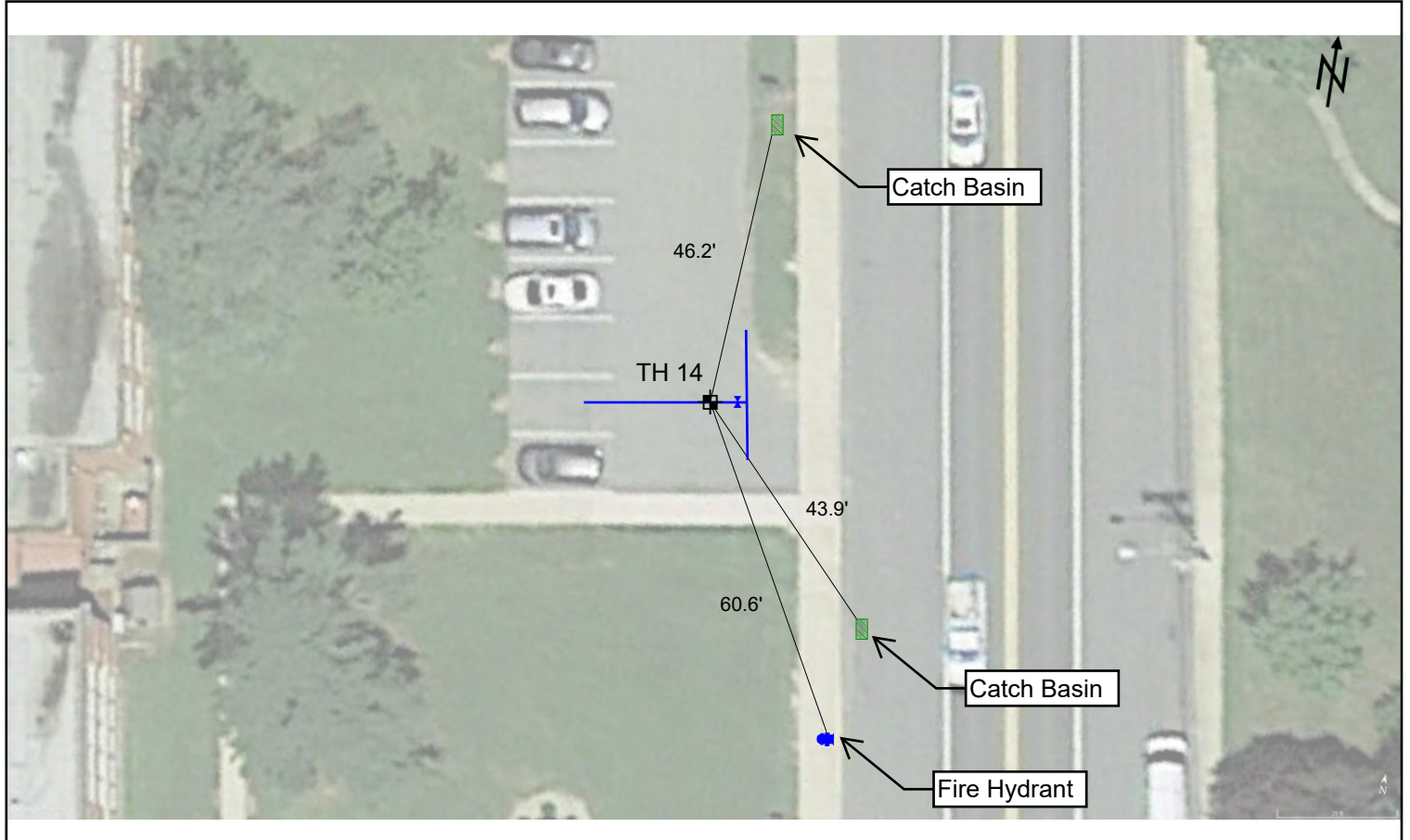
SOFTDIG PROJECT #: 196140 TEST HOLE #: 14 CLIENT: EDIS DATE: 10/30/19
ONE-CALL PERMIT: --- CREW: T. JOHNSON TRUCK #: 164
CITY / COUNTY / STATE: MIDDLETOWN, NEW CASTLE COUNTY, DELAWARE ROAD: S BROAD ST
GENERAL LOCATION: IN THE PARKING LOT IN FRONT OF THE SCHOOL ANTICIPATED UTILITY: ---

----- TEST HOLE INFORMATION -----

ACTUAL SIZE, COLOR, MATERIAL, TYPE OF UTILITY 10" BLACK METAL WATER PIPE
UTILITY OWNER: EVERETT MEREDITH MIDDLE SCHOOL DESIGNATION COLOR: BLUE
OBSERVED UTILITY CONDITION: GOOD ☒ POOR ☐ OTHER ☐
TEST HOLE MARKED BY: PK NAIL ☒ HUB ☐ X MARK ☐
PORTION OF UTILITY EXPOSED TOP ☒ HALF ☐ SIDE ☐
1) REFERENCE ELEVATION 54.38'
2) UTILITY TOP ELEVATION 50.75'
3) UTILITY BOTTOM ELEVATION ---
4) WIDTH --- TYPE: FORMED ☐ ROUGH POUR ☐ RACKED ☐
5) UTILITY TOP DEPTH FROM REFERENCE 3.63'
6) UTILITY BOTTOM DEPTH FROM REFERENCE ---
SURFACE COVERING TYPE: ASPHALT ☒ CONCRETE ☐ SOIL ☐ SURFACE COVERING DEPTH: A - 4 IN
GENERALIZED SOIL PROFILE: SELECT FILL ☐ ROCK ☐ SAND ☐ CLAY ☒ OTHER GROUND WATER
BENCHMARK ELEVATION: 54.27' DESCRIPTION: CATCH BASIN
BENCHMARK ELEVATION: --- DESCRIPTION: ---



----- TEST HOLE PLAN -----



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SURFACE MARKINGS BY SOFTDIG OR OTHERS DO NOT
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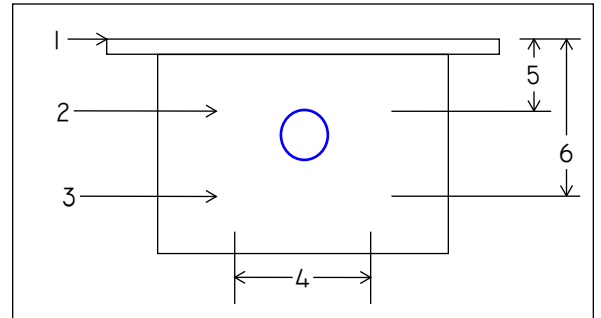
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EMAIL: SOFTDIG@SOFTDIG.COM

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ENGLISH UNITS

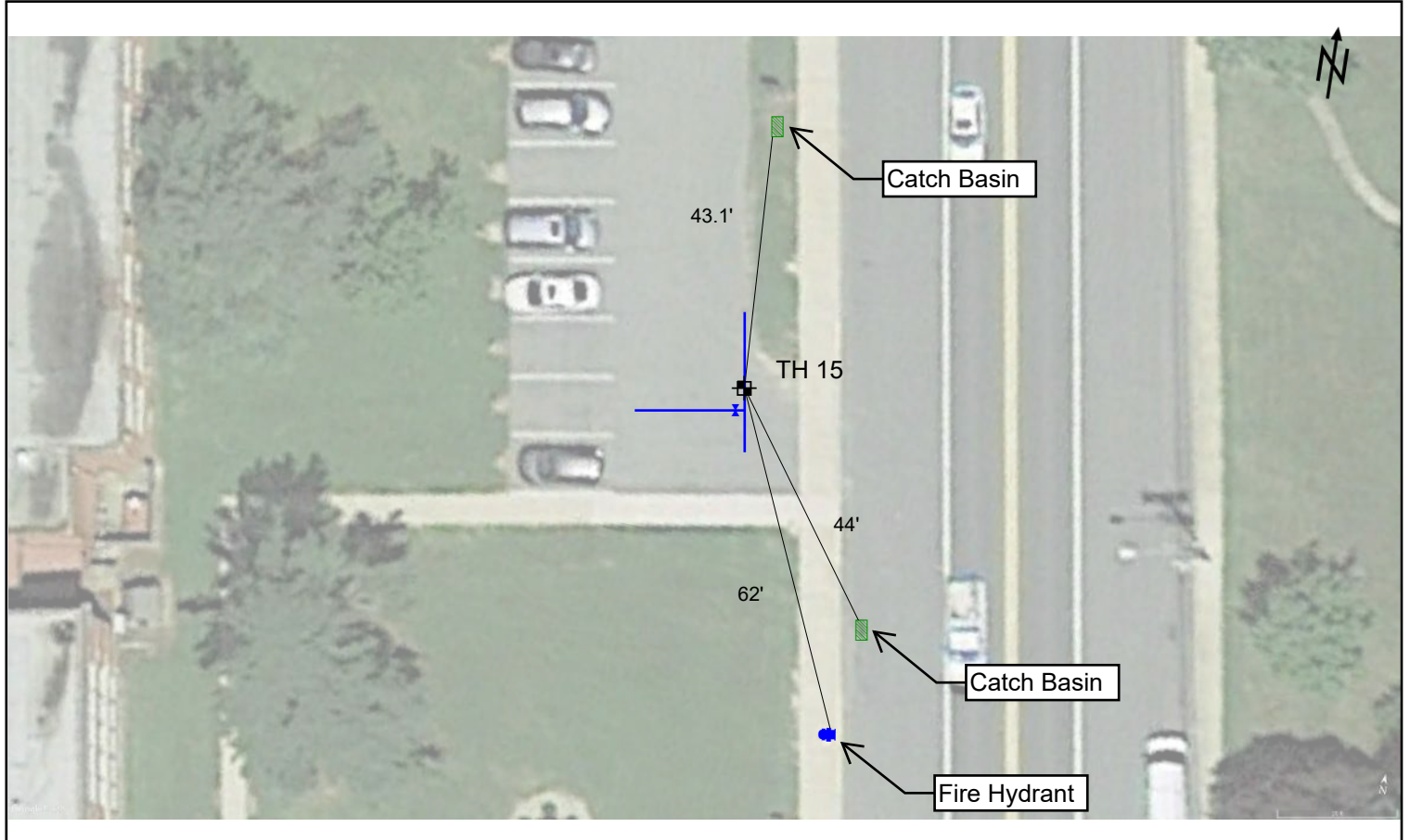
SOFTDIG PROJECT #: 196140 TEST HOLE #: 15 CLIENT: EDIS DATE: 10/30/19
ONE-CALL PERMIT: --- CREW: T. JOHNSON TRUCK #: 164
CITY / COUNTY / STATE: MIDDLETOWN, NEW CASTLE COUNTY, DELAWARE ROAD: S BROAD ST
GENERAL LOCATION: IN THE PARKING LOT IN FRONT OF THE SCHOOL ANTICIPATED UTILITY: ---

----- TEST HOLE INFORMATION -----

ACTUAL SIZE, COLOR, MATERIAL, TYPE OF UTILITY 10" BLACK METAL WATER MAIN
UTILITY OWNER: EVERETT MEREDITH MIDDLE SCHOOL DESIGNATION COLOR: BLUE
OBSERVED UTILITY CONDITION: GOOD ☒ POOR ☐ OTHER ☐
TEST HOLE MARKED BY: PK NAIL ☒ HUB ☐ X MARK ☐
PORTION OF UTILITY EXPOSED TOP ☒ HALF ☐ SIDE ☐
1) REFERENCE ELEVATION 54.38'
2) UTILITY TOP ELEVATION 50.81'
3) UTILITY BOTTOM ELEVATION ---
4) WIDTH --- TYPE: FORMED ☐ ROUGH POUR ☐ RACKED ☐
5) UTILITY TOP DEPTH FROM REFERENCE 3.57'
6) UTILITY BOTTOM DEPTH FROM REFERENCE ---
SURFACE COVERING TYPE: ASPHALT ☒ CONCRETE ☐ SOIL ☐ SURFACE COVERING DEPTH: A - 4 IN
GENERALIZED SOIL PROFILE: SELECT FILL ☐ ROCK ☐ SAND ☐ CLAY ☒ OTHER GROUND WATER
BENCHMARK ELEVATION: 54.27' DESCRIPTION: CATCH BASIN
BENCHMARK ELEVATION: --- DESCRIPTION: ---



----- TEST HOLE PLAN -----



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SOFTDIG PROJECT #: 196140 TEST HOLE #: 16 CLIENT: EDIS DATE: 10/30/19
ONE-CALL PERMIT: --- CREW: T. JOHNSON TRUCK #: 164
CITY / COUNTY / STATE: MIDDLETOWN, NEW CASTLE COUNTY, DELAWARE ROAD: S BROAD ST
GENERAL LOCATION: IN THE GRASS NEAR THE SOUTH BUILDING OF THE SCHOOL ANTICIPATED UTILITY: ---

----- TEST HOLE INFORMATION -----

ACTUAL SIZE, COLOR, MATERIAL, TYPE OF UTILITY NO UTILITY FOUND; CLEARED TO 9', COULD NOT LOCATE SANITARY S. PIPE

UTILITY OWNER: EVERETT MEREDITH MIDDLE SCHOOL DESIGNATION COLOR: GREEN

OBSERVED UTILITY CONDITION: GOOD ☐ POOR ☐ OTHER ☐

TEST HOLE MARKED BY: PK NAIL ☐ HUB ☐ X MARK ☐

PORTION OF UTILITY EXPOSED TOP ☐ HALF ☐ SIDE ☐

1) REFERENCE ELEVATION ---

2) UTILITY TOP ELEVATION ---

3) UTILITY BOTTOM ELEVATION ---

4) WIDTH --- TYPE: FORMED ☐ ROUGH POUR ☐ RACKED ☐

5) UTILITY TOP DEPTH FROM REFERENCE ---

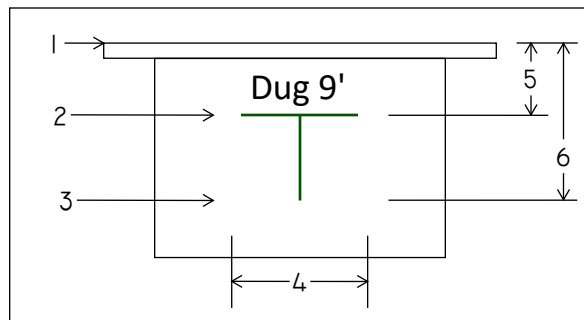
6) UTILITY BOTTOM DEPTH FROM REFERENCE ---

SURFACE COVERING TYPE: ASPHALT ☐ CONCRETE ☐ SOIL ☒ SURFACE COVERING DEPTH: --- IN

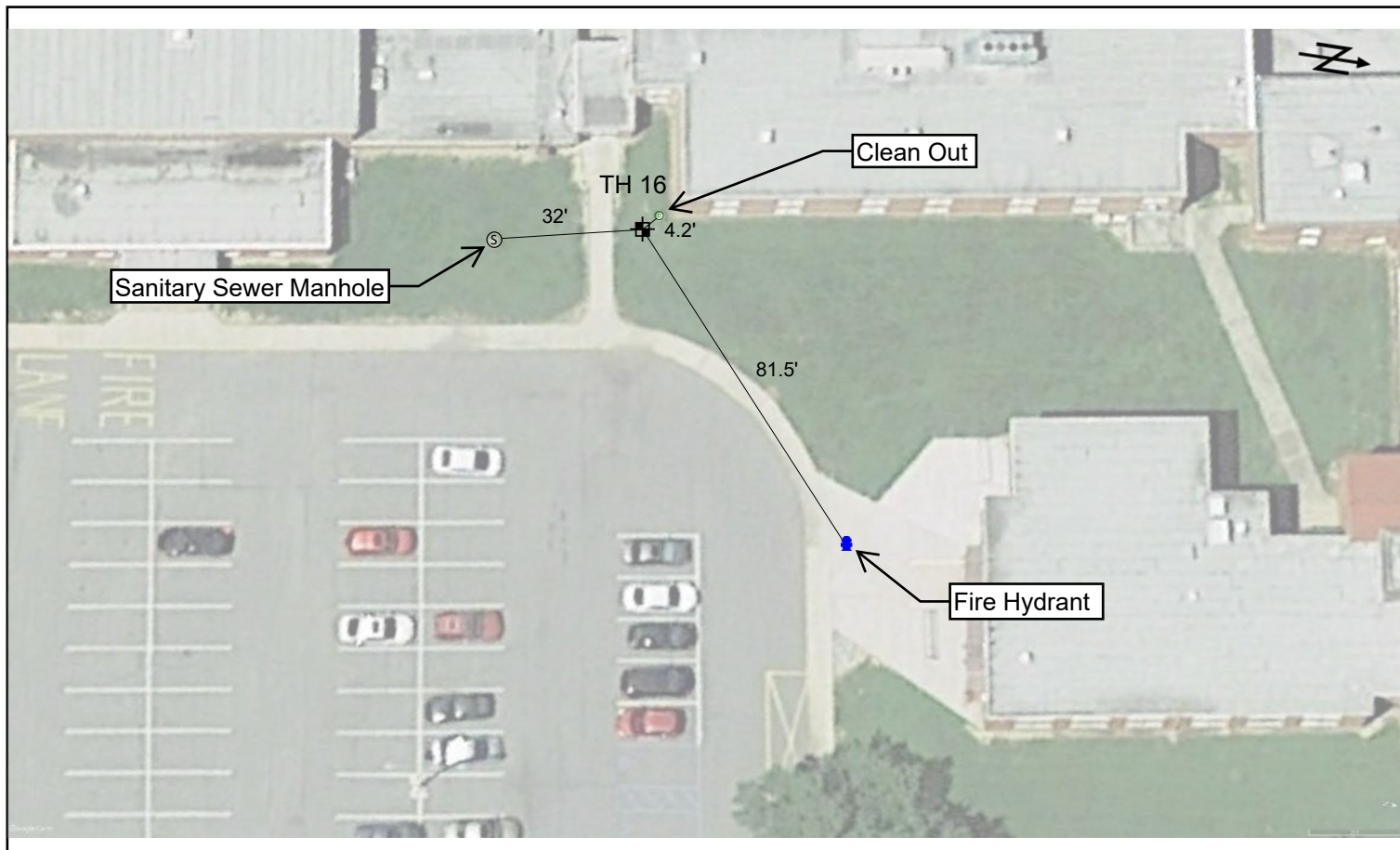
GENERALIZED SOIL PROFILE: SELECT FILL ☐ ROCK ☐ SAND ☐ CLAY ☒ OTHER ---

BENCHMARK ELEVATION: --- DESCRIPTION: ---

BENCHMARK ELEVATION: --- DESCRIPTION: ---



----- TEST HOLE PLAN -----



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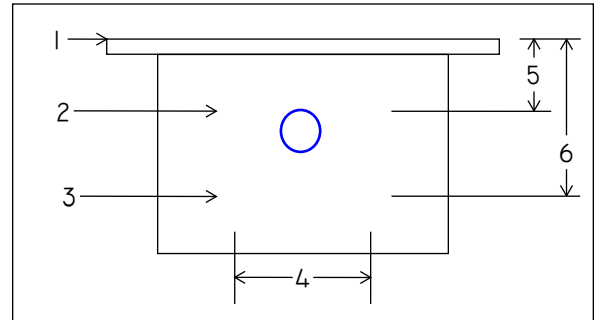
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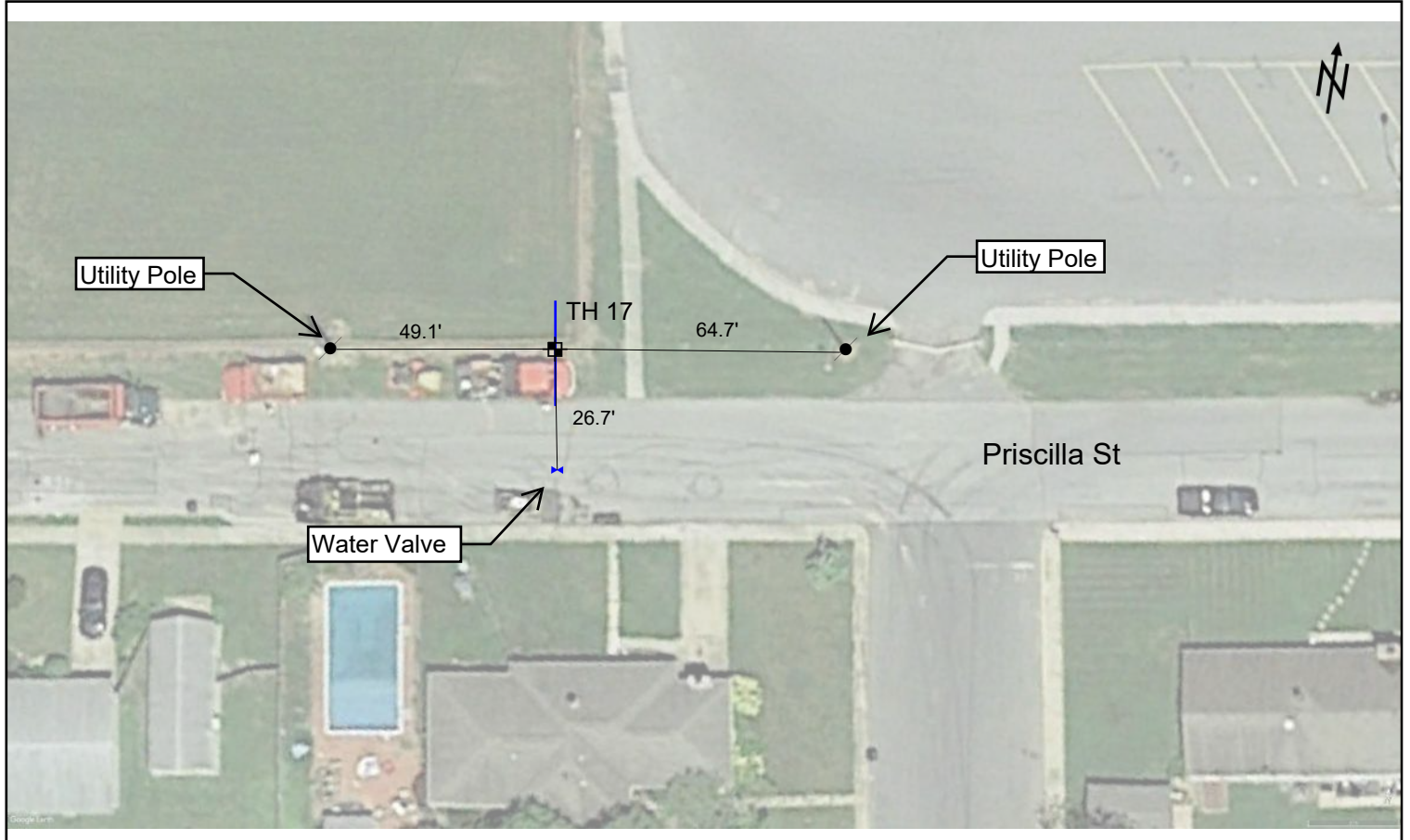
SOFTDIG PROJECT #: 196140 TEST HOLE #: 17 CLIENT: EDIS DATE: 10/30/19
ONE-CALL PERMIT: --- CREW: T. JOHNSON TRUCK #: 164
CITY / COUNTY / STATE: MIDDLETOWN, NEW CASTLE COUNTY, DELAWARE ROAD: PRISCILLA ST
GENERAL LOCATION: SHOULDER OF PRISCILLA ST ANTICIPATED UTILITY: ---

----- TEST HOLE INFORMATION -----

ACTUAL SIZE, COLOR, MATERIAL, TYPE OF UTILITY 6" BLACK METAL WATER PIPE
UTILITY OWNER: EVERETT MEREDITH MIDDLE SCHOOL DESIGNATION COLOR: BLUE
OBSERVED UTILITY CONDITION: GOOD ☒ POOR ☐ OTHER ☐
TEST HOLE MARKED BY: PK NAIL ☐ HUB ☒ X MARK ☐
PORTION OF UTILITY EXPOSED TOP ☒ HALF ☐ SIDE ☐
1) REFERENCE ELEVATION 51.71'
2) UTILITY TOP ELEVATION 48.50'
3) UTILITY BOTTOM ELEVATION ---
4) WIDTH --- TYPE: FORMED ☐ ROUGH POUR ☐ RACKED ☐
5) UTILITY TOP DEPTH FROM REFERENCE 3.21'
6) UTILITY BOTTOM DEPTH FROM REFERENCE ---
SURFACE COVERING TYPE: ASPHALT ☐ CONCRETE ☐ SOIL ☒ SURFACE COVERING DEPTH: --- IN
GENERALIZED SOIL PROFILE: SELECT FILL ☐ ROCK ☐ SAND ☒ CLAY ☐ OTHER ---
BENCHMARK ELEVATION: 54.51' DESCRIPTION: CATCH BASIN
BENCHMARK ELEVATION: --- DESCRIPTION: ---



----- TEST HOLE PLAN -----



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SOFTDIG PROJECT #: 196140 TEST HOLE #: 18 CLIENT: EDIS DATE: 11/1/19
ONE-CALL PERMIT: --- CREW: T. JOHNSON TRUCK #: 164
CITY / COUNTY / STATE: MIDDLETOWN, NEW CASTLE COUNTY, DELAWARE ROAD: PRISCILLA ST
GENERAL LOCATION: IN FRONT OF THE FOOTBALL FIELD NEAR THE SHED ANTICIPATED UTILITY: ---

----- TEST HOLE INFORMATION -----

ACTUAL SIZE, COLOR, MATERIAL, TYPE OF UTILITY (3) 1/2" BLACK SITE LIGHTING CABLES (DIRECT BURY)

UTILITY OWNER: EVERETT MEREDITH MIDDLE SCHOOL DESIGNATION COLOR: RED

OBSERVED UTILITY CONDITION: GOOD ☒ POOR ☐ OTHER ☐

TEST HOLE MARKED BY: PK NAIL ☐ HUB ☒ X MARK ☐

PORTION OF UTILITY EXPOSED TOP ☒ HALF ☐ SIDE ☐

1) REFERENCE ELEVATION 52.33'

2) UTILITY TOP ELEVATION 50.30'

3) UTILITY BOTTOM ELEVATION ---

4) WIDTH --- TYPE: FORMED ☐ ROUGH POUR ☐ RACKED ☐

5) UTILITY TOP DEPTH FROM REFERENCE 2.03'

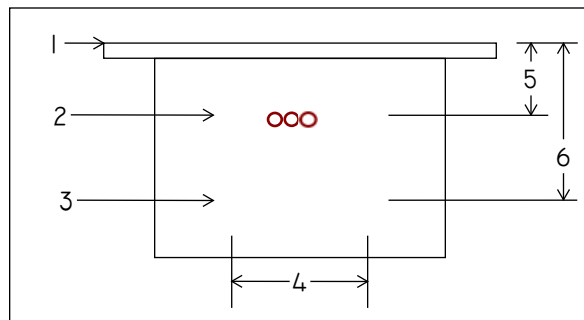
6) UTILITY BOTTOM DEPTH FROM REFERENCE ---

SURFACE COVERING TYPE: ASPHALT ☐ CONCRETE ☐ SOIL ☒ SURFACE COVERING DEPTH: --- IN

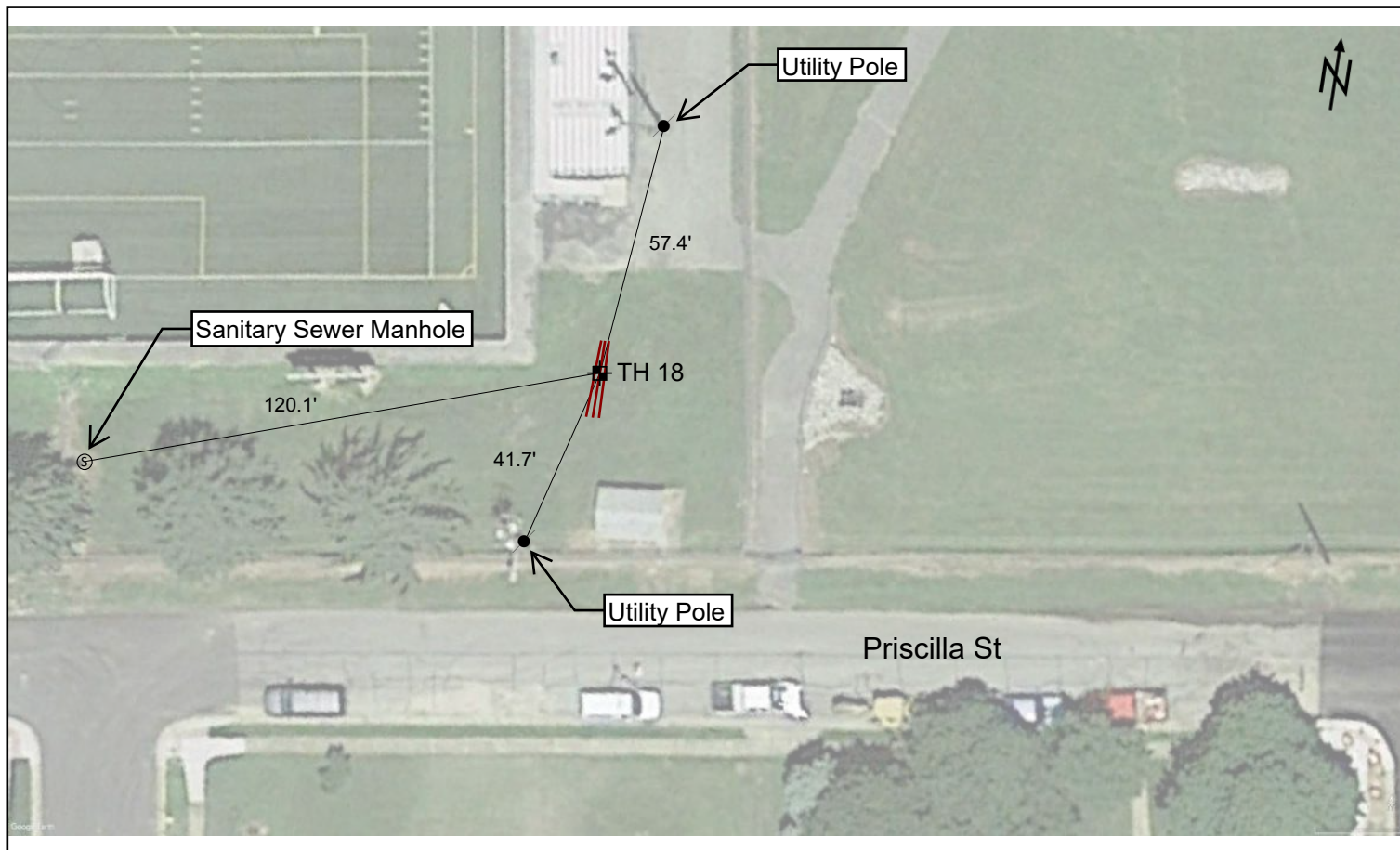
GENERALIZED SOIL PROFILE: SELECT FILL ☐ ROCK ☒ SAND ☒ CLAY ☐ OTHER ---

BENCHMARK ELEVATION: 55.92' DESCRIPTION: STORM DRAIN MANHOLE

BENCHMARK ELEVATION: --- DESCRIPTION: ---



----- TEST HOLE PLAN -----



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SOFTDIG PROJECT #: 196140 TEST HOLE #: 19 CLIENT: EDIS DATE: 11/1/19
ONE-CALL PERMIT: --- CREW: T. JOHNSON TRUCK #: 164
CITY / COUNTY / STATE: MIDDLETOWN, NEW CASTLE COUNTY, DELAWARE ROAD: PRISCILLA ST
GENERAL LOCATION: IN FRONT OF THE FOOTBALL FIELD NEAR THE SHED ANTICIPATED UTILITY: ---

----- TEST HOLE INFORMATION -----

ACTUAL SIZE, COLOR, MATERIAL, TYPE OF UTILITY 18" GRAY CONCRETE STORM DRAIN PIPE
UTILITY OWNER: EVERETT MEREDITH MIDDLE SCHOOL DESIGNATION COLOR: GREEN

OBSERVED UTILITY CONDITION: GOOD ☒ POOR ☐ OTHER ☐

TEST HOLE MARKED BY: PK NAIL ☐ HUB ☒ X MARK ☐

PORTION OF UTILITY EXPOSED TOP ☒ HALF ☐ SIDE ☐

1) REFERENCE ELEVATION 52.43'

2) UTILITY TOP ELEVATION 48.00'

3) UTILITY BOTTOM ELEVATION ---

4) WIDTH --- TYPE: FORMED ☐ ROUGH POUR ☐ RACKED ☐

5) UTILITY TOP DEPTH FROM REFERENCE 4.43'

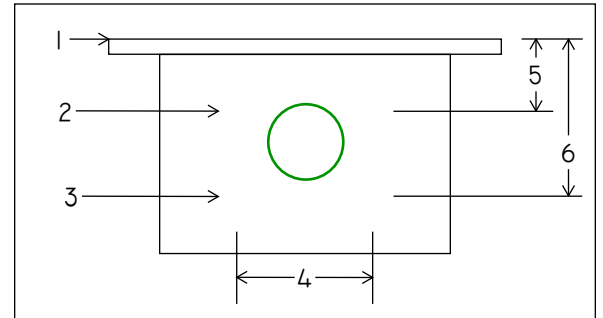
6) UTILITY BOTTOM DEPTH FROM REFERENCE ---

SURFACE COVERING TYPE: ASPHALT ☐ CONCRETE ☐ SOIL ☒ SURFACE COVERING DEPTH: --- IN

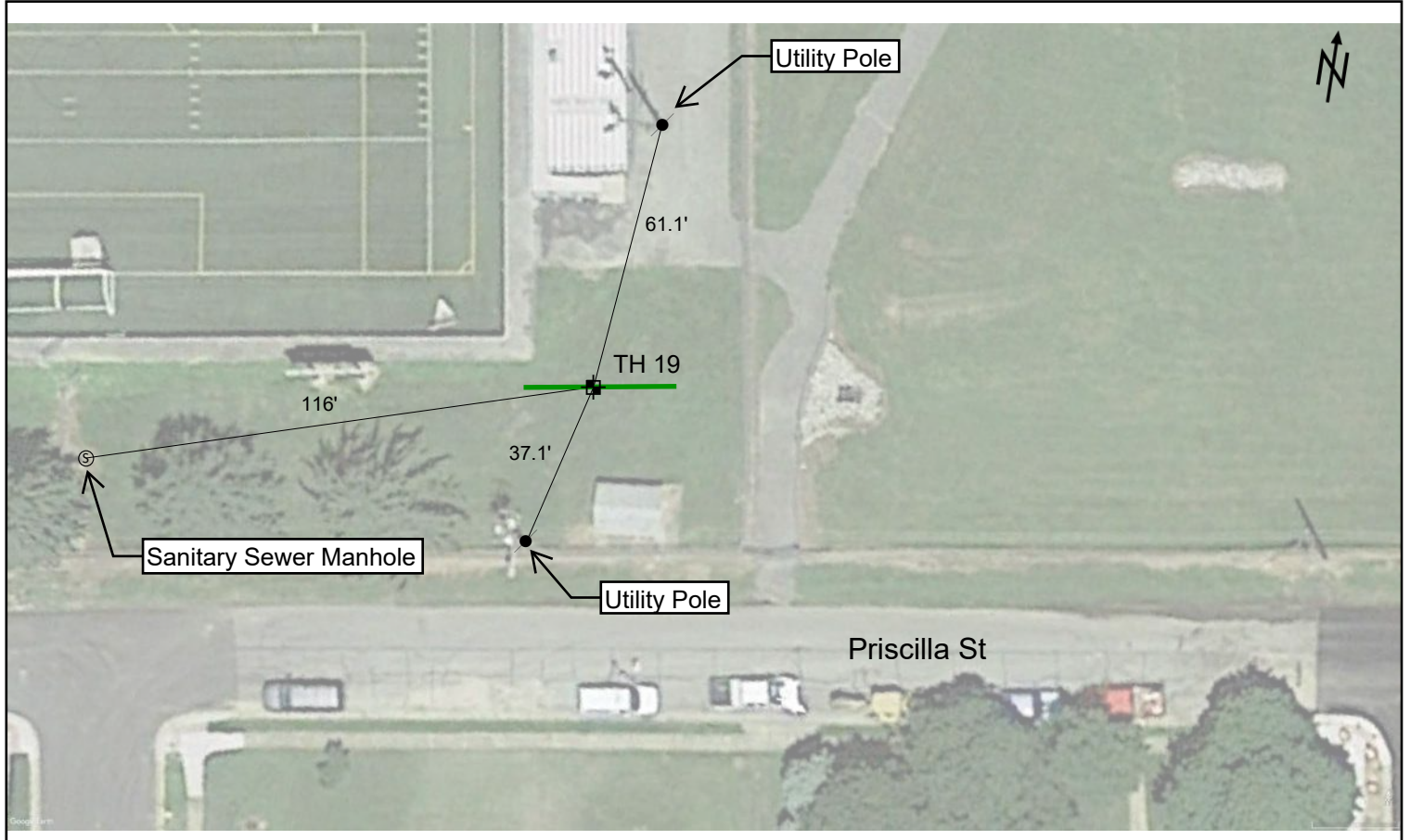
GENERALIZED SOIL PROFILE: SELECT FILL ☐ ROCK ☒ SAND ☒ CLAY ☐ OTHER ---

BENCHMARK ELEVATION: 55.92' DESCRIPTION: STORM DRAIN MANHOLE

BENCHMARK ELEVATION: --- DESCRIPTION: ---



----- TEST HOLE PLAN -----



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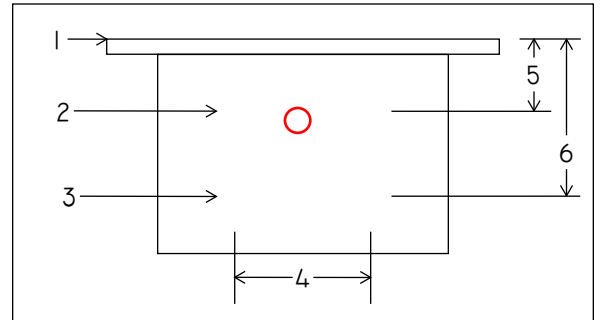
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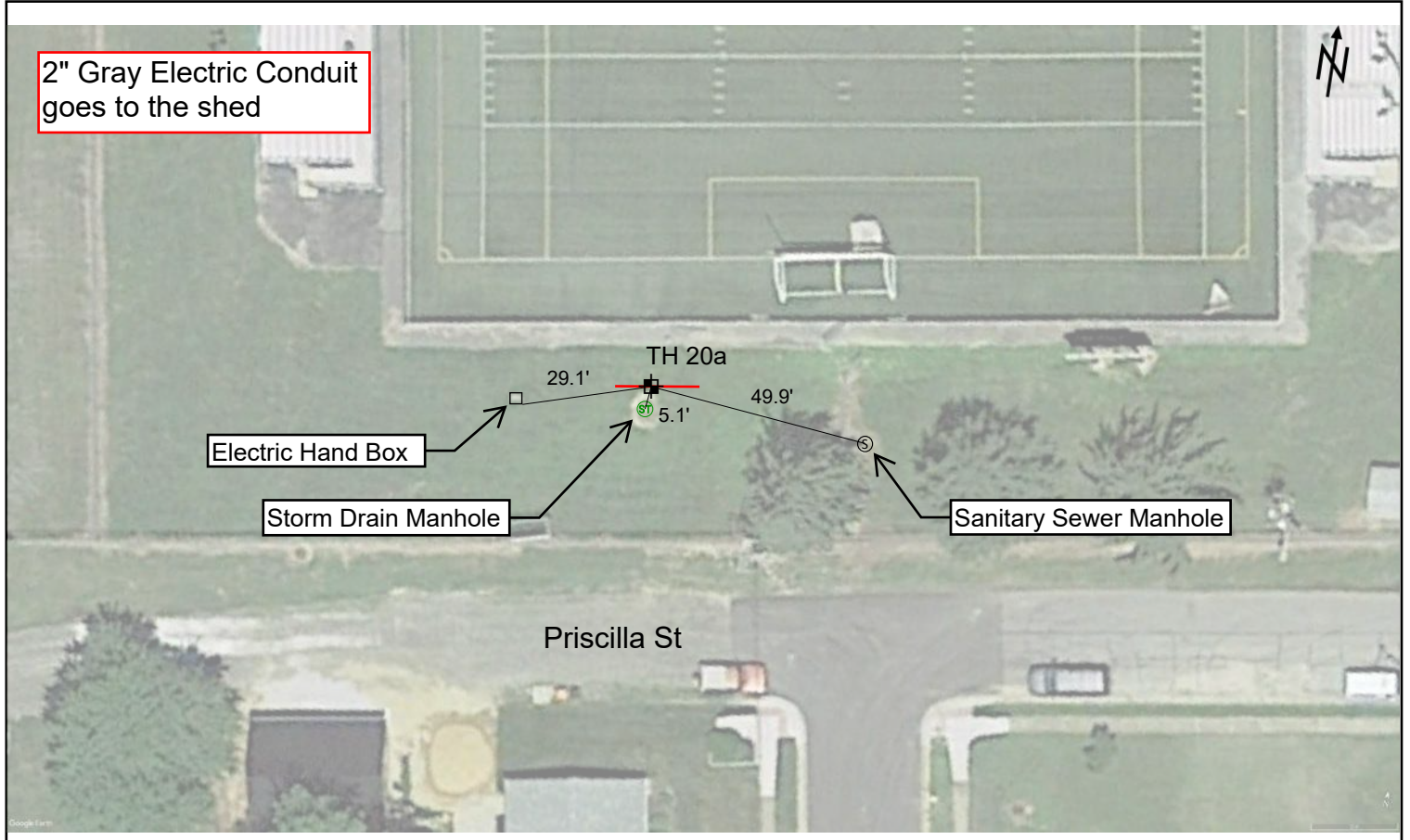
SOFTDIG PROJECT #: 196140 TEST HOLE #: 20A CLIENT: EDIS DATE: 11/1/19
ONE-CALL PERMIT: --- CREW: T. JOHNSON TRUCK #: 164
CITY / COUNTY / STATE: MIDDLETOWN, NEW CASTLE COUNTY, DELAWARE ROAD: PRISCILLA ST
GENERAL LOCATION: IN FRONT OF THE FOOTBALL FIELD NEAR THE SHED ANTICIPATED UTILITY: ---

----- TEST HOLE INFORMATION -----

ACTUAL SIZE, COLOR, MATERIAL, TYPE OF UTILITY 2" GRAY ELECTRIC CONDUIT
UTILITY OWNER: EVERETT MEREDITH MIDDLE SCHOOL DESIGNATION COLOR: RED
OBSERVED UTILITY CONDITION: GOOD ☒ POOR ☐ OTHER ☐
TEST HOLE MARKED BY: PK NAIL ☐ HUB ☒ X MARK ☐
PORTION OF UTILITY EXPOSED TOP ☒ HALF ☐ SIDE ☐
1) REFERENCE ELEVATION 55.34'
2) UTILITY TOP ELEVATION 53.86'
3) UTILITY BOTTOM ELEVATION ---
4) WIDTH --- TYPE: FORMED ☐ ROUGH POUR ☐ RACKED ☐
5) UTILITY TOP DEPTH FROM REFERENCE 1.48'
6) UTILITY BOTTOM DEPTH FROM REFERENCE ---
SURFACE COVERING TYPE: ASPHALT ☐ CONCRETE ☐ SOIL ☒ SURFACE COVERING DEPTH: --- IN
GENERALIZED SOIL PROFILE: SELECT FILL ☐ ROCK ☒ SAND ☒ CLAY ☐ OTHER ---
BENCHMARK ELEVATION: 55.92' DESCRIPTION: STORM DRAIN MANHOLE
BENCHMARK ELEVATION: --- DESCRIPTION: ---



----- TEST HOLE PLAN -----



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SOFTDIG PROJECT #: 196140 TEST HOLE #: 20B CLIENT: EDIS DATE: 11/1/19
ONE-CALL PERMIT: --- CREW: T. JOHNSON TRUCK #: 164
CITY / COUNTY / STATE: MIDDLETOWN, NEW CASTLE COUNTY, DELAWARE ROAD: PRISCILLA ST
GENERAL LOCATION: IN FRONT OF THE FOOTBALL FIELD NEAR THE SHED ANTICIPATED UTILITY: ---

----- TEST HOLE INFORMATION -----

ACTUAL SIZE, COLOR, MATERIAL, TYPE OF UTILITY (2) 1" GRAY ELECTRIC CONDUITS

UTILITY OWNER: EVERETT MEREDITH MIDDLE SCHOOL DESIGNATION COLOR: RED

OBSERVED UTILITY CONDITION: GOOD ☒ POOR ☐ OTHER ☐

TEST HOLE MARKED BY: PK NAIL ☐ HUB ☒ X MARK ☐

PORTION OF UTILITY EXPOSED TOP ☒ HALF ☐ SIDE ☐

1) REFERENCE ELEVATION 55.34'

2) UTILITY TOP ELEVATION 53.86'

3) UTILITY BOTTOM ELEVATION ---

4) WIDTH --- TYPE: FORMED ☐ ROUGH POUR ☐ RACKED ☐

5) UTILITY TOP DEPTH FROM REFERENCE 1.48'

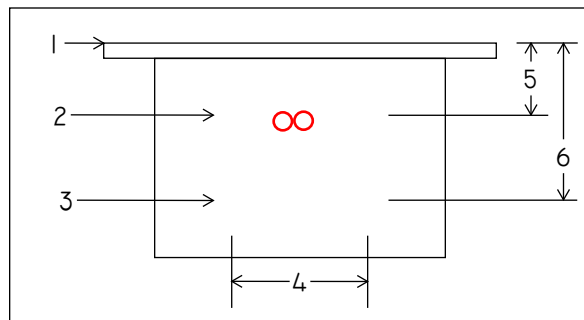
6) UTILITY BOTTOM DEPTH FROM REFERENCE ---

SURFACE COVERING TYPE: ASPHALT ☐ CONCRETE ☐ SOIL ☒ SURFACE COVERING DEPTH: --- IN

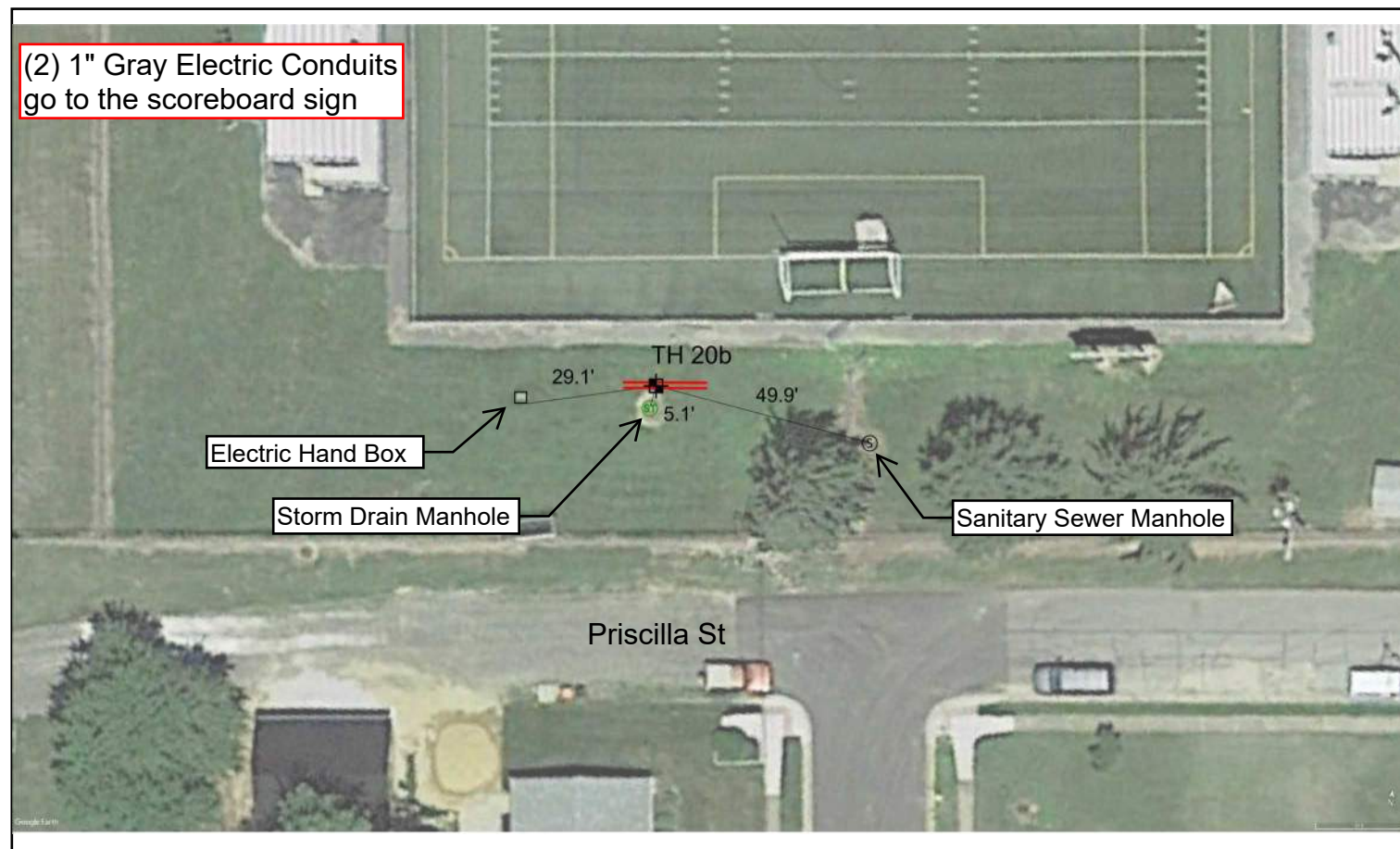
GENERALIZED SOIL PROFILE: SELECT FILL ☐ ROCK ☒ SAND ☒ CLAY ☐ OTHER ---

BENCHMARK ELEVATION: 55.92' DESCRIPTION: STORM DRAIN MANHOLE

BENCHMARK ELEVATION: --- DESCRIPTION: ---



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SOFTDIG PROJECT #: 196140 TEST HOLE #: 21A CLIENT: EDIS DATE: 11/1/19
ONE-CALL PERMIT: --- CREW: T. JOHNSON TRUCK #: 164
CITY / COUNTY / STATE: MIDDLETOWN, NEW CASTLE COUNTY, DELAWARE ROAD: PRISCILLA ST
GENERAL LOCATION: IN FRONT OF THE FOOTBALL FIELD NEAR THE SHED ANTICIPATED UTILITY: ---

----- TEST HOLE INFORMATION -----

ACTUAL SIZE, COLOR, MATERIAL, TYPE OF UTILITY (3) 1/2" BLACK ELECTRIC CABLES (DIRECT BURY)

UTILITY OWNER: EVERETT MEREDITH MIDDLE SCHOOL DESIGNATION COLOR: RED

OBSERVED UTILITY CONDITION: GOOD ☒ POOR ☐ OTHER ☐

TEST HOLE MARKED BY: PK NAIL ☐ HUB ☒ X MARK ☐

PORTION OF UTILITY EXPOSED TOP ☒ HALF ☐ SIDE ☐

1) REFERENCE ELEVATION 55.27'

2) UTILITY TOP ELEVATION 53.60'

3) UTILITY BOTTOM ELEVATION ---

4) WIDTH --- TYPE: FORMED ☐ ROUGH POUR ☐ RACKED ☐

5) UTILITY TOP DEPTH FROM REFERENCE 1.67'

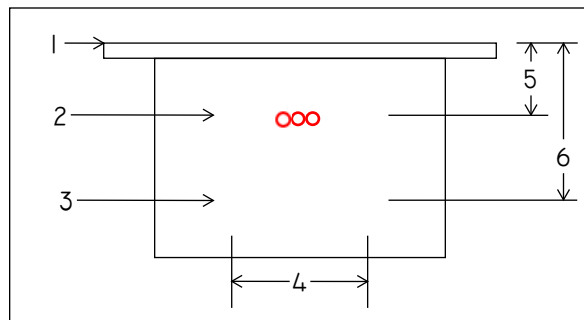
6) UTILITY BOTTOM DEPTH FROM REFERENCE ---

SURFACE COVERING TYPE: ASPHALT ☐ CONCRETE ☐ SOIL ☒ SURFACE COVERING DEPTH: --- IN

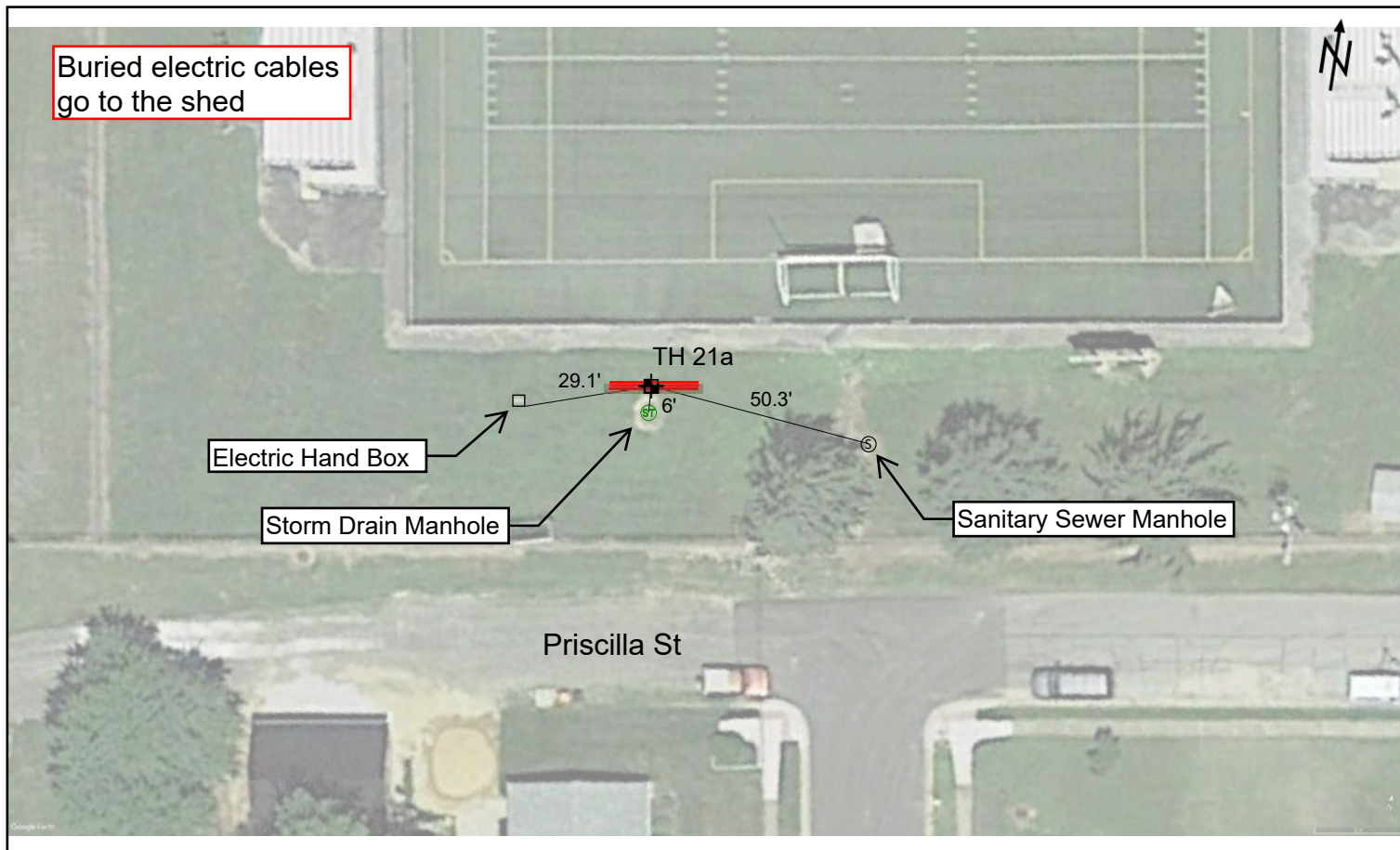
GENERALIZED SOIL PROFILE: SELECT FILL ☐ ROCK ☒ SAND ☒ CLAY ☐ OTHER ---

BENCHMARK ELEVATION: 55.92' DESCRIPTION: STORM DRAIN MANHOLE

BENCHMARK ELEVATION: --- DESCRIPTION: ---



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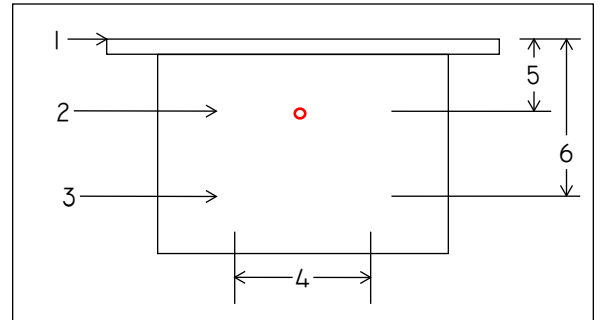
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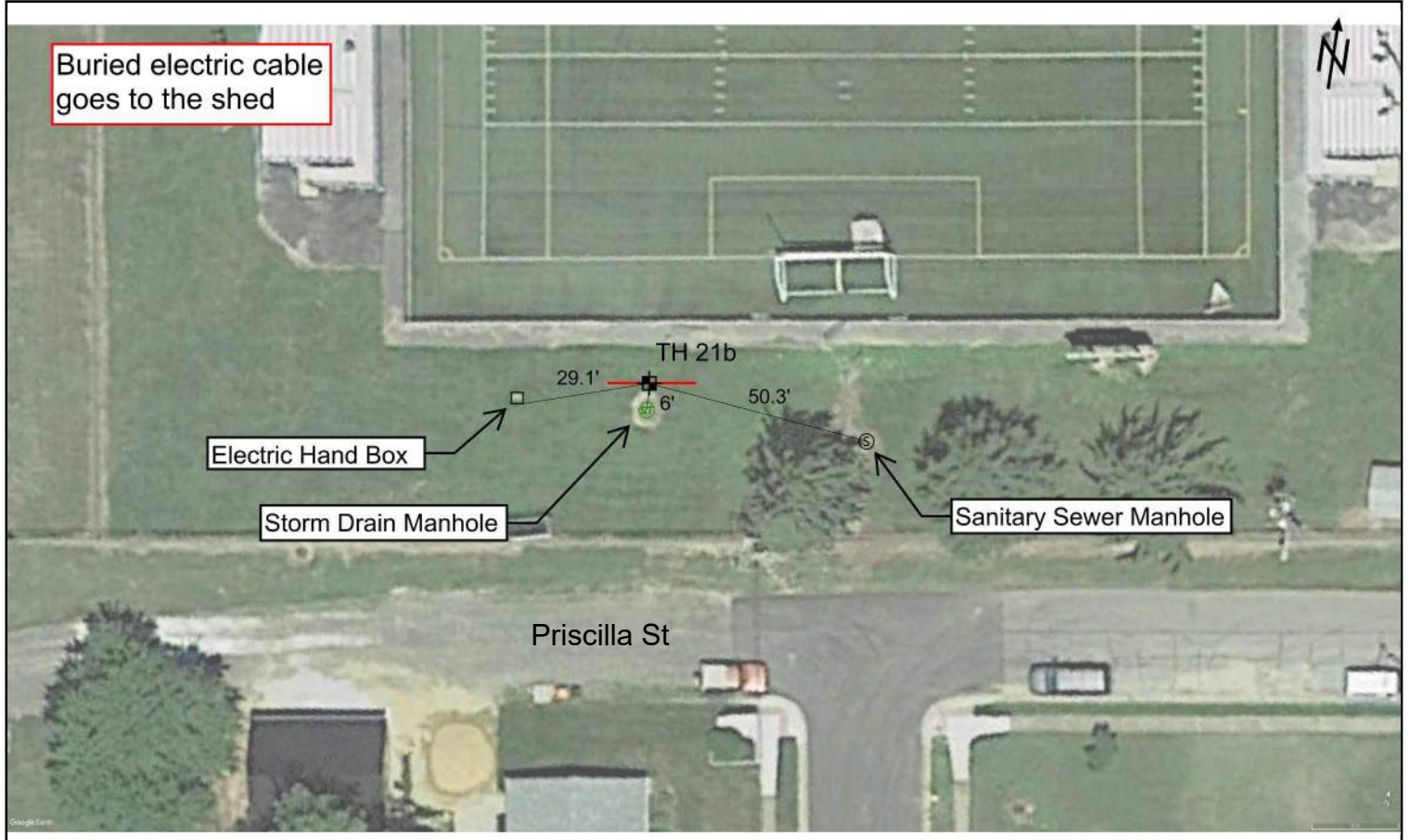
SOFTDIG PROJECT #: 196140 TEST HOLE #: 21B CLIENT: EDIS DATE: 11/1/19
ONE-CALL PERMIT: --- CREW: T. JOHNSON TRUCK #: 164
CITY / COUNTY / STATE: MIDDLETOWN, NEW CASTLE COUNTY, DELAWARE ROAD: PRISCILLA ST
GENERAL LOCATION: IN FRONT OF THE FOOTBALL FIELD NEAR THE SHED ANTICIPATED UTILITY: ---

----- TEST HOLE INFORMATION -----

ACTUAL SIZE, COLOR, MATERIAL, TYPE OF UTILITY 1/4" BLACK ELECTRIC CABLE (DIRECT BURY)
UTILITY OWNER: EVERETT MEREDITH MIDDLE SCHOOL DESIGNATION COLOR: RED
OBSERVED UTILITY CONDITION: GOOD ☒ POOR ☐ OTHER ☐
TEST HOLE MARKED BY: PK NAIL ☐ HUB ☒ X MARK ☐
PORTION OF UTILITY EXPOSED TOP ☒ HALF ☐ SIDE ☐
1) REFERENCE ELEVATION 55.27'
2) UTILITY TOP ELEVATION 53.60'
3) UTILITY BOTTOM ELEVATION ---
4) WIDTH --- TYPE: FORMED ☐ ROUGH POUR ☐ RACKED ☐
5) UTILITY TOP DEPTH FROM REFERENCE 1.67'
6) UTILITY BOTTOM DEPTH FROM REFERENCE ---
SURFACE COVERING TYPE: ASPHALT ☐ CONCRETE ☐ SOIL ☒ SURFACE COVERING DEPTH: --- IN
GENERALIZED SOIL PROFILE: SELECT FILL ☐ ROCK ☒ SAND ☒ CLAY ☐ OTHER ---
BENCHMARK ELEVATION: 55.92' DESCRIPTION: STORM DRAIN MANHOLE
BENCHMARK ELEVATION: --- DESCRIPTION: ---



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SOFTDIG PROJECT #: 196140 TEST HOLE #: 22 CLIENT: EDIS DATE: 11/4/19
ONE-CALL PERMIT: --- CREW: T. JOHNSON TRUCK #: 164
CITY / COUNTY / STATE: MIDDLETOWN, NEW CASTLE COUNTY, DELAWARE ROAD: PRISCILLA ST
GENERAL LOCATION: FIELD IN FRONT OF THE FOOTBALL STADIUM BUILDING ANTICIPATED UTILITY: ---

----- TEST HOLE INFORMATION -----

ACTUAL SIZE, COLOR, MATERIAL, TYPE OF UTILITY 10" DIAMETER DRY WELL (PER INFORMATION GIVEN BY THE CLIENT)

UTILITY OWNER: EVERETT MEREDITH MIDDLE SCHOOL DESIGNATION COLOR: BLUE

OBSERVED UTILITY CONDITION: GOOD ☒ POOR ☐ OTHER ☐

TEST HOLE MARKED BY: PK NAIL ☐ HUB ☒ X MARK ☐

PORTION OF UTILITY EXPOSED TOP ☒ HALF ☐ SIDE ☐

1) REFERENCE ELEVATION 55.65'

2) UTILITY TOP ELEVATION 41.65'

3) UTILITY BOTTOM ELEVATION ---

4) WIDTH --- TYPE: FORMED ☐ ROUGH POUR ☐ RACKED ☐

5) UTILITY TOP DEPTH FROM REFERENCE 14.00'

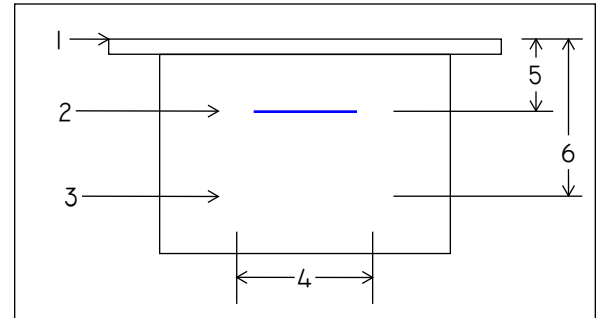
6) UTILITY BOTTOM DEPTH FROM REFERENCE ---

SURFACE COVERING TYPE: ASPHALT ☐ CONCRETE ☐ SOIL ☒ SURFACE COVERING DEPTH: --- IN

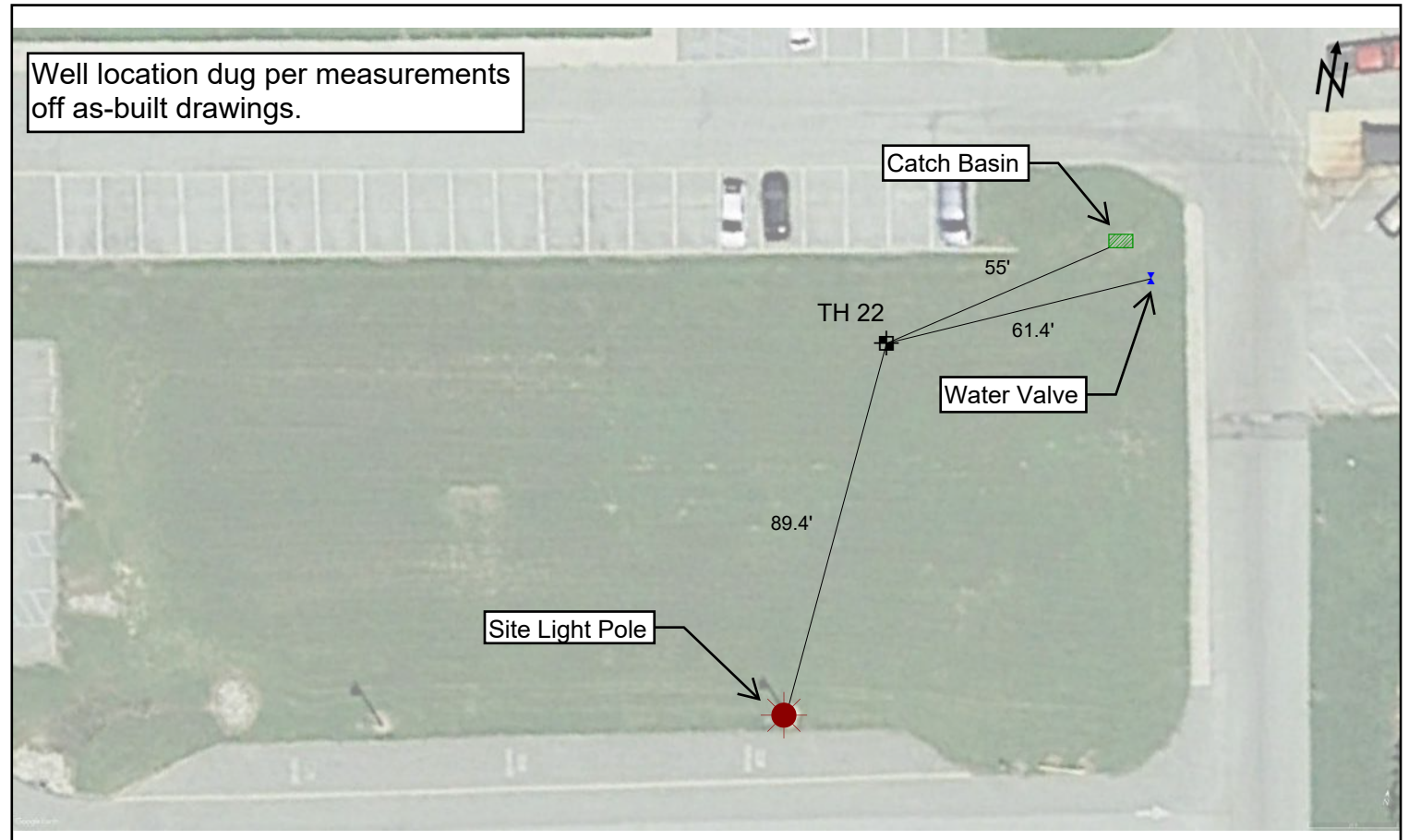
GENERALIZED SOIL PROFILE: SELECT FILL ☐ ROCK ☒ SAND ☒ CLAY ☐ OTHER ---

BENCHMARK ELEVATION: 55.51' DESCRIPTION: CATCH BASIN

BENCHMARK ELEVATION: --- DESCRIPTION: ---



----- TEST HOLE PLAN -----



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FAX: (610)696-7864
EMAIL: SOFTDIG@SOFTDIG.COM

VACUUM EXCAVATION DATA SHEET
ENGLISH UNITS

SOFTDIG PROJECT #: 196140 TEST HOLE #: 23 CLIENT: EDIS DATE: 11/4/19
ONE-CALL PERMIT: --- CREW: T. JOHNSON TRUCK #: 164
CITY / COUNTY / STATE: MIDDLETOWN, NEW CASTLE COUNTY, DELAWARE ROAD: PRISCILLA ST
GENERAL LOCATION: FIELD IN FRONT OF THE FOOTBALL STADIUM BUILDING ANTICIPATED UTILITY: ---

----- TEST HOLE INFORMATION -----

ACTUAL SIZE, COLOR, MATERIAL, TYPE OF UTILITY 10" DIAMETER DRY WELL (PER INFORMATION GIVEN BY THE CLIENT)

UTILITY OWNER: EVERETT MEREDITH MIDDLE SCHOOL DESIGNATION COLOR: BLUE

OBSERVED UTILITY CONDITION: GOOD ☒ POOR ☐ OTHER ☐

TEST HOLE MARKED BY: PK NAIL ☐ HUB ☒ X MARK ☐

PORTION OF UTILITY EXPOSED TOP ☒ HALF ☐ SIDE ☐

1) REFERENCE ELEVATION 55.51'

2) UTILITY TOP ELEVATION 46.61'

3) UTILITY BOTTOM ELEVATION ---

4) WIDTH --- TYPE: FORMED ☐ ROUGH POUR ☐ RACKED ☐

5) UTILITY TOP DEPTH FROM REFERENCE 8.90'

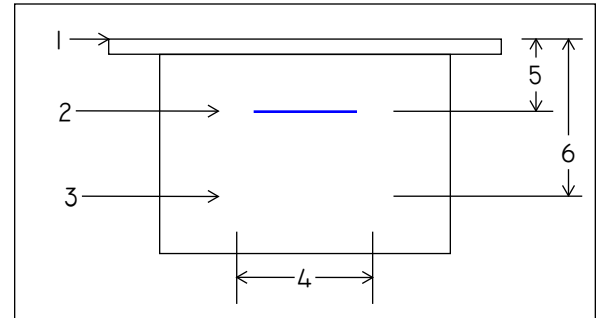
6) UTILITY BOTTOM DEPTH FROM REFERENCE ---

SURFACE COVERING TYPE: ASPHALT ☐ CONCRETE ☐ SOIL ☒ SURFACE COVERING DEPTH: --- IN

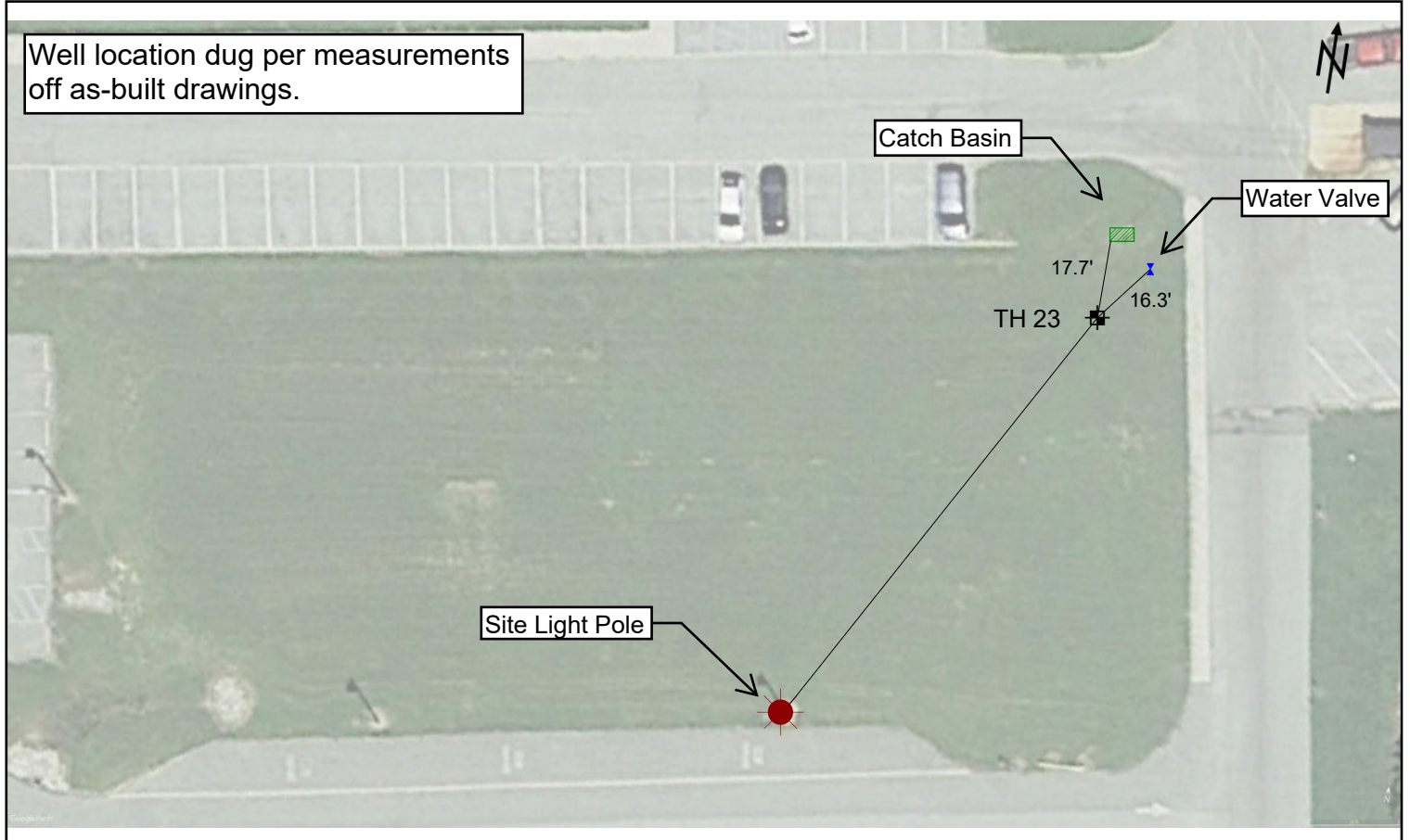
GENERALIZED SOIL PROFILE: SELECT FILL ☐ ROCK ☒ SAND ☒ CLAY ☐ OTHER ---

BENCHMARK ELEVATION: 55.51' DESCRIPTION: CATCH BASIN

BENCHMARK ELEVATION: --- DESCRIPTION: ---



----- TEST HOLE PLAN -----



CHECKED BY: _____
DATE: _____

SURFACE MARKINGS BY SOFTDIG OR OTHERS DO NOT
NECESSARILY INDICATE TRUE LOCATION OR DEPTH



Test hole 2#



Test hole 3#



Test hole 4#



Test hole 5#



Test hole 6#



Test hole 7#



Test hole 8#



Test hole 14#



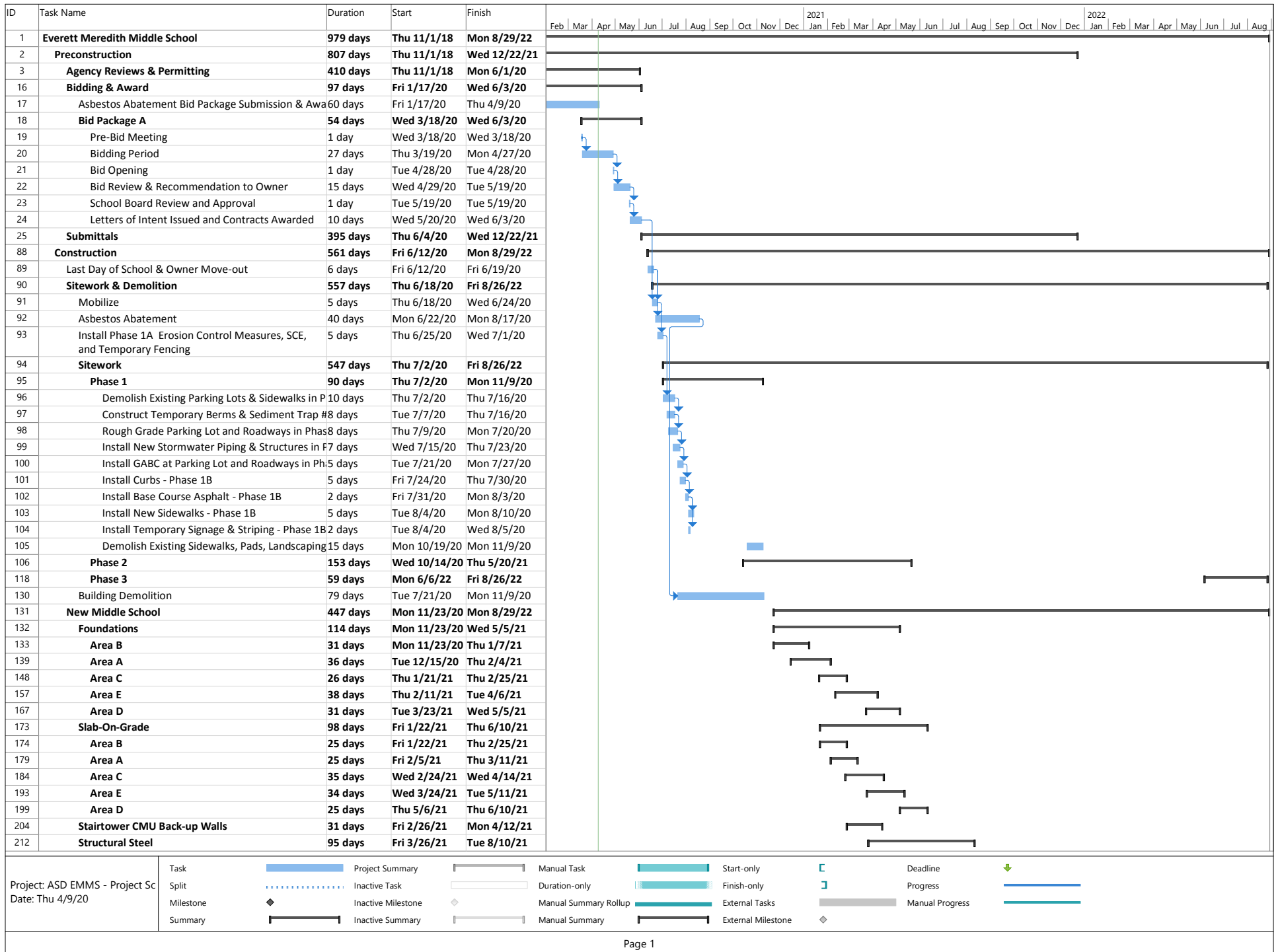
Test hole 15#

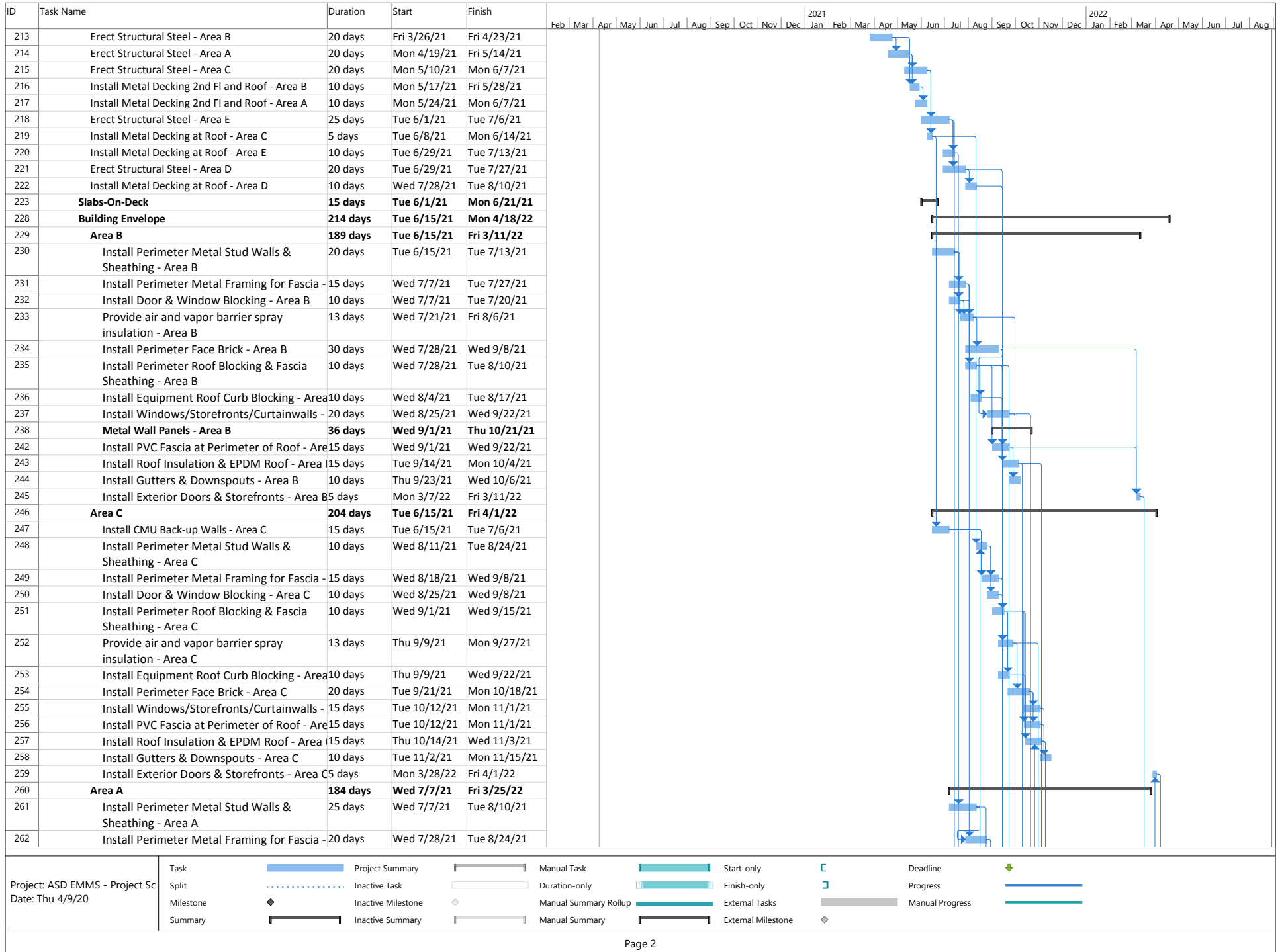


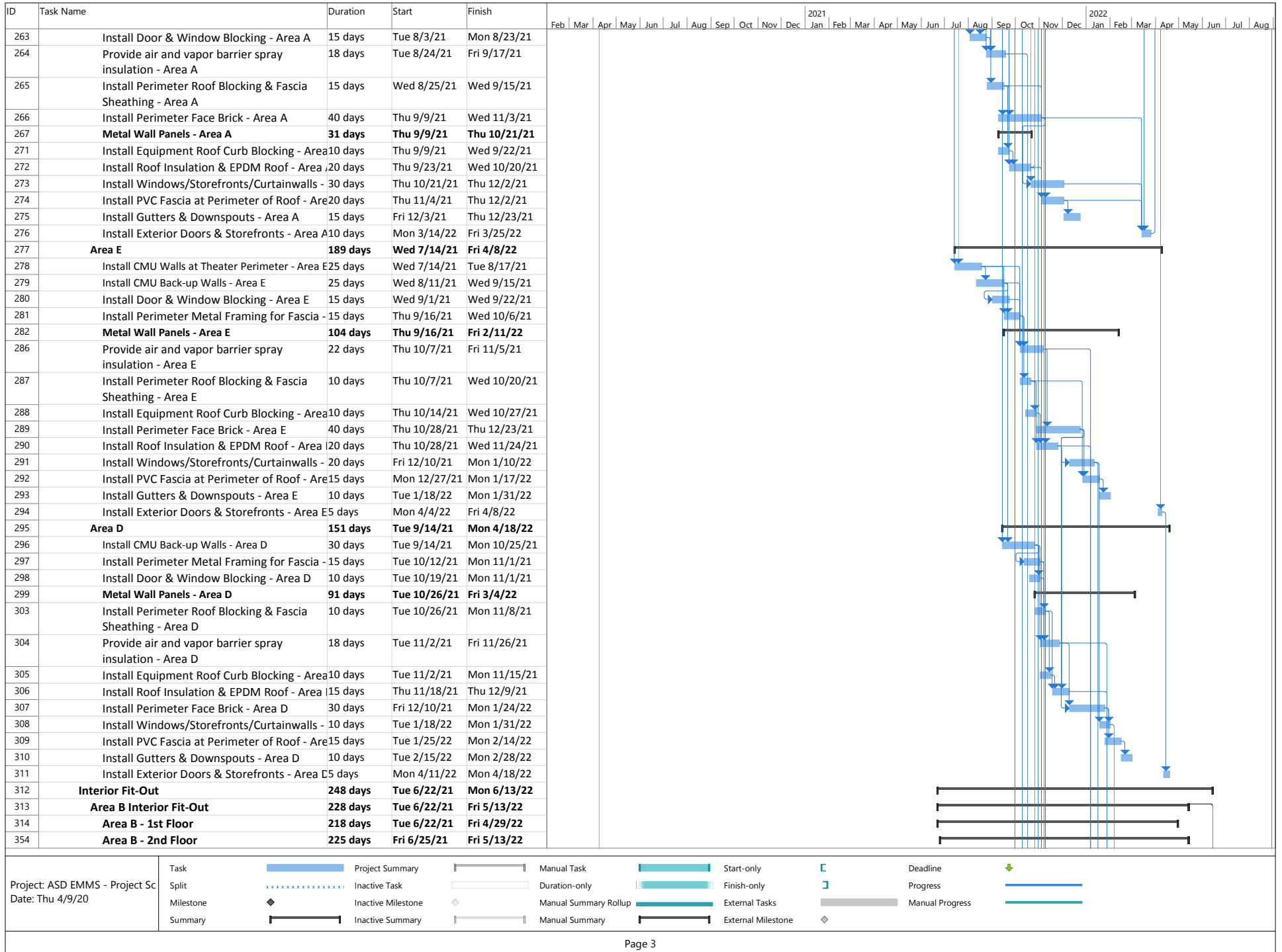
Test hole 16#



Test hole 17#









SECTION 088000
GLAZING

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Insulating glass units.
- B. Glazing units.
- C. Glazing compounds and accessories.

1.02 RELATED REQUIREMENTS

- A. Section 081113 - Hollow Metal Doors and Frames: Glazed lites in doors and borrowed lites.
- B. Section 081416 - Flush Wood Doors: Glazed lites in doors.
- C. Section 081613 - FRP Flush Doors: Glazed lites in doors.
- D. Section 084123 - Fire Rated Aluminum-Framed Storefronts: Glazing in fire-rated windows.
- E. Section 084313 - Aluminum-Framed Storefronts: Glazing furnished as part of storefront assembly.
- F. Section 088723 - Safety and Security Films applied to glazing.

1.03 REFERENCE STANDARDS

- A. 16 CFR 1201 - Safety Standard for Architectural Glazing Materials; current edition.
- B. ANSI Z97.1 - American National Standard for Safety Glazing Materials Used in Buildings, Safety Performance Specifications and Methods of Test; 2010.
- C. ASTM C864 - Standard Specification for Dense Elastomeric Compression Seal Gaskets, Setting Blocks, and Spacers; 2005 (Reapproved 2015).
- D. ASTM C920 - Standard Specification for Elastomeric Joint Sealants; 2014a.
- E. ASTM C1036 - Standard Specification for Flat Glass; 2011.
- F. ASTM C1048 - Standard Specification for Heat-Strengthened and Fully Tempered Flat Glass; 2012.
- G. ASTM C1172 - Standard Specification for Laminated Architectural Flat Glass; 2014.
- H. ASTM C1193 - Standard Guide for Use of Joint Sealants; 2016.
- I. ASTM E119 - Standard Test Methods for Fire Tests of Building Construction and Materials; 2016a.
- J. ASTM E1300 - Standard Practice for Determining Load Resistance of Glass in Buildings; 2016.
- K. GANA (SM) - GANA Sealant Manual; 2008.
- L. ICC (IBC) - International Building Code; 2015.
- M. IGMA TM-3000 - North American Glazing Guidelines for Sealed Insulating Glass Units for Commercial & Residential Use; 1990 (2004).
- N. ITS (DIR) - Directory of Listed Products; current edition.
- O. NFPA 252 - Standard Methods of Fire Tests of Door Assemblies; 2012.
- P. NFPA 257 - Standard on Fire Test for Window and Glass Block Assemblies; 2012.
- Q. NFRC 100 - Procedure for Determining Fenestration Product U-factors; 2014.

- R. NFRC 200 - Procedure for Determining Fenestration Product Solar Heat Gain Coefficient and Visible Transmittance at Normal Incidence; 2014.
- S. NFRC 300 - Test Method for Determining the Solar Optical Properties of Glazing Materials and Systems; 2014.
- T. UL (DIR) - Online Certifications Directory; current listings at database.ul.com.
- U. UL 9 - Standard for Fire Tests of Window Assemblies; Current Edition, Including All Revisions.
- V. UL 10B - Standard for Fire Tests of Door Assemblies; Current Edition, Including All Revisions.
- W. UL 10C - Standard for Positive Pressure Fire Tests of Door Assemblies; Current Edition, Including All Revisions.
- X. UL 263 - Standard for Fire Tests of Building Construction and Materials; Current Edition, Including All Revisions.

1.04 SUBMITTALS

- A. Product Data on Insulating Glass Unit and Glazing Unit Glazing Types: Provide structural, physical and environmental characteristics, size limitations, special handling and installation requirements.
- B. Product Data on Glazing Compounds and Accessories: Provide chemical, functional, and environmental characteristics, limitations, special application requirements, and identify available colors.
- C. Samples: Submit two samples 12 by 12 inch in size of glass units.
- D. Certificate: Certify that products of this section meet or exceed specified requirements.
- E. Warranty Documentation: Submit manufacturer warranty and ensure that forms have been completed in Owner's name and registered with manufacturer.

1.05 QUALITY ASSURANCE

- A. Perform Work in accordance with IGMA TM-3000 for glazing installation methods. Maintain one copy on site.
- B. Manufacturer Qualifications: Company specializing in manufacturing the products specified in this section with minimum three years of documented experience.
- C. Installer Qualifications: Company specializing in performing work of the type specified and with at least three years documented experience.

1.06 FIELD CONDITIONS

- A. Do not install glazing when ambient temperature is less than 40 degrees F.
- B. Maintain minimum ambient temperature before, during and 24 hours after installation of glazing compounds.

1.07 WARRANTY

- A. See Section 017800 - Closeout Submittals, for additional warranty requirements.
- B. Insulating Glass Units: Provide a ten (10) year manufacturer warranty to include coverage for seal failure, interpane dusting or misting, including replacement of failed units.
- C. Laminated Glass: Provide a ten (10) year manufacturer warranty to include coverage for delamination, including replacement of failed units.

PART 2 PRODUCTS

2.01 MANUFACTURERS

- A. Float Glass Manufacturers:
 - 1. Guardian Industries Corp: www.sunguardglass.com.
 - 2. Pilkington North America Inc: www.pilkington.com/na.
 - 3. PPG Industries, Inc: www.ppgideascales.com.
 - 4. Substitutions: Refer to Section 016000 - Product Requirements.
- B. Fire-Resistance-Rated Glass: Provide products as required to achieve indicated fire-rating period.
 - 1. Manufacturers:
 - a. SAFTIFIRST, a division of O'Keeffe's Inc: www.safti.com/#sle.
 - b. Technical Glass Products: www.fireglass.com/#sle.
 - c. Substitutions: Refer to Section 016000 - Product Requirements.
- C. Fire-Protection-Rated Glass: Provide products as required to achieve indicated fire-rating period.
 - 1. Manufacturers:
 - a. SAFTIFIRST, a division of O'Keeffe's Inc: www.safti.com/#sle.
 - b. Technical Glass Products: www.fireglass.com/#sle.
 - c. Substitutions: Refer to Section 016000 - Product Requirements.

2.02 PERFORMANCE REQUIREMENTS - EXTERIOR GLAZING ASSEMBLIES

- A. Provide type and thickness of exterior glazing assemblies to support assembly dead loads, and to withstand live loads caused by positive and negative wind pressure acting normal to plane of glass.
 - 1. Comply with ASTM E1300 for design load resistance of glass type, thickness, dimensions, and maximum lateral deflection of supported glass.
 - 2. Provide glass edge support system sufficiently stiff to limit the lateral deflection of supported glass edges to less than 1/175 of their lengths under specified design load.
 - 3. Glass thicknesses listed are minimum.
- B. Vapor Retarder and Air Barrier Seals: Provide completed assemblies that maintain continuity of building enclosure vapor retarder and air barrier.
 - 1. In conjunction with vapor retarder and joint sealer materials described in other sections.
- C. Thermal and Optical Performance: Provide exterior glazing products with performance properties as indicated. Performance properties are in accordance with manufacturer's published data as determined with the following procedures and/or test methods:
 - 1. Center of Glass U-Value: Comply with NFRC 100 using Lawrence Berkeley National Laboratory (LBNL) WINDOW 6.3 computer program.
 - 2. Center of Glass Solar Heat Gain Coefficient (SHGC): Comply with NFRC 200 using Lawrence Berkeley National Laboratory (LBNL) WINDOW 6.3 computer program.
 - 3. Solar Optical Properties: Comply with NFRC 300 test method.

2.03 GLASS MATERIALS

- A. Float Glass: Provide float glass based glazing unless noted otherwise.
 - 1. Annealed Type: ASTM C1036, Type I - Transparent Flat, Class 1 - Clear, Quality-Q3.
 - 2. Heat-Strengthened and Fully Tempered Types: ASTM C1048, Kind HS and FT.
 - 3. Fully Tempered Safety Glass: Complies with ANSI Z97.1 and 16 CFR 1201 criteria.

4. Impact Resistant Safety Glass: Complies with ANSI Z97.1 and 16 CFR 1201 criteria; Class A/Category II.
 - B. Laminated Glass: Float glass laminated in accordance with ASTM C1172.
 1. Laminated Safety Glass: Complies with ANSI Z97.1 - Class A or 16 CFR 1201 - Category II impact test requirements.
 2. Polyvinyl Butyral (PVB) Interlayer: 0.030 inch thick, minimum.
- 2.04 BASIS OF DESIGN - INSULATING GLASS UNITS
- A. Type 1 - Vision glazing, with Low-E coating.
 1. Applications: Exterior insulating glass glazing unless otherwise indicated.
 2. Space between lites filled with argon.
 3. Total Thickness: 1 inch.
 4. Thermal Transmittance (U-Value): 0.24, nominal.
 5. Visible Light Transmittance (VLT): 62 percent, nominal.
 6. Solar Heat Gain Coefficient (SHGC): 0.27, nominal.
 7. Metal Edge Spacers: Stainless steel, bent and soldered corners.
 8. Edge Seal:
 - a. Dual-Sealed System: Provide polyisobutylene sealant as primary seal applied between spacer and glass panes, and silicone, polysulfide, or polyurethane sealant as secondary seal applied around perimeter.
 9. Color: Black.
 10. Basis of Design - Guardian Glass, LLC: www.guardianglass.com.
 11. Outboard Lite: Annealed float glass, 1/4 inch thick, minimum.
 - a. Low-E Coating: SunGuard SNX 62/27 on #2 surface.
 12. Inboard Lite: Annealed float glass, 1/4 inch thick.
 - a. Coating: No coating on inboard lite.
 - b. Glass: Clear.
 - B. Type 1A -Sealed Insulating Glass Units: Safety glazing:
 1. Applications: Provide this type of glazing in the following locations:
 - a. Glazed lites in exterior doors.
 - b. Glazed sidelights and panels next to doors.
 - c. Other locations required by applicable federal, state, and local codes and regulations.
 - d. Other locations indicated on the drawings.
 2. Type: Same as Type 1 except use fully tempered float glass for both outboard and inboard lites.
 - C. Type 1B -Sealed Insulating Glass Units: Obscure glazing:
 1. Applications: Provide this type of glazing in the following locations:
 - a. Exterior windows in gymnasium.
 - b. Other locations indicated on the drawings.
 2. Type: Same as Type 1 except use patterned obscure glass for inboard lite. Both inboard and outboard lites shall be laminated glass.
 - a. Pattern: No. 62
 - D. Type 2 - Spandrel glazing.
 1. Applications: Exterior spandrel glazing unless otherwise indicated.
 2. Space between lites filled with argon.
 3. Basis of Design - Guardian Glass, LLC: www.guardianglass.com.
 4. Outboard Lite: Heat-strengthened float glass, 1/4 inch thick, minimum.

- a. Tint: Clear.
 - b. Coating: Same as on vision units, on #2 surface.
- 5. Inboard Lite: Fully tempered float glass, 1/4 inch thick.
 - a. Tint: Clear.
 - b. Opacifier: Ceramic frit, on #3 surface.
 - c. Opacifier Color: as selected by Architect from manufacturer's full range.
 - d. Coating: OpaciCoat 300.
- 6. Total Thickness: 1 inch.
- E. Other Manufacturers: Provide either the product identified as "Basis of Design" or an equivalent product of another acceptable manufacturer.
- F. Substitution Procedures: See Section 016000 - Product Requirements.
 - 1. For any product not identified as "Basis of Design", submit information as specified for substitutions.

2.05 GLAZING UNITS

- A. Type 3 - Monolithic Interior Vision Glazing:
 - 1. Applications: Interior glazing unless otherwise indicated.
 - 2. Glass Type: Fully tempered float glass.
 - 3. Tint: Clear.
 - 4. Thickness: 1/4 inch, nominal.
 - 5. Locations: Interior vision panels, doors and sidelites.
 - 6. Type 3A: Same as Type 3 except use patterned obscure glass.
 - a. Pattern: No. 62
- B. Type 4 - Fire-Resistance-Rated Glazing: Type, thickness, and configuration of glazing that contains flame, smoke, and blocks radiant heat, as required to achieve indicated fire-rating period of 60 minutes.
 - 1. Applications:
 - a. Glazing in fire-rated window assembly.
 - b. Other locations as indicated on drawings.
 - 2. Provide products listed by ITS (DIR) or UL (DIR) and approved by authorities having jurisdiction.
 - 3. Safety Glazing Certification: 16 CFR 1201 Category II.
 - 4. Glazing Method: As required for fire rating.
 - 5. Fire-Rating Period: 60 minutes.
 - 6. Nominal Thickness: 1-1/8 inch.
 - 7. Markings for Fire-Resistance-Rated Glazing Assemblies: Provide permanent markings on fire-resistance-rated glazing in compliance with ICC (IBC), local building code, and authorities having jurisdiction.
 - a. "W" - meets wall assembly criteria of ASTM E119 or UL 263 fire test standards.
 - b. "D" - meets fire door assembly criteria of NFPA 252, UL 10B, or UL 10C fire test standards.
 - c. "H" - meets fire door assembly hose stream test of NFPA 252, UL 10B, or UL 10C fire test standards.
 - d. "T" - meets temperature rise of not more than 450 degrees F above ambient at end of 30 minutes fire exposure in accordance with NFPA 252, UL 10B, or UL 10C fire test standards.
 - e. "XXX" - placeholder that represents fire-rating period, in minutes.
 - 8. Manufacturers:

- a. SAFTIFIRST, a division of O'Keeffe's Inc; SuperLite II-XL 60: www.safti.com/#sle.
 - b. Technical Glass Products; Pilkington Pyrostop 60: www.fireglass.com/#sle.
 - c. Substitutions: Refer to Section 016000 - Product Requirements.
- C. Type 5 - Fire-Protection-Rated Glazing: Type, thickness, and configuration of glazing that contains flame, smoke, and does not block radiant heat, as required to achieve indicated fire-rating period of 45 minutes.
 - 1. Applications:
 - a. Glazing in fire-rated door assembly.
 - b. Glazing in fire-rated window assembly.
 - c. Other locations as indicated on drawings.
 - 2. Provide products listed by ITS (DIR) or UL (DIR) and approved by authorities having jurisdiction.
 - 3. Safety Glazing Certification: 16 CFR 1201 Category II.
 - 4. Glazing Method: As required for fire rating.
 - 5. Fire-Rating Period: 45 minutes.
 - 6. Markings for Fire-Protection-Rated Glazing Assemblies: Provide permanent markings on fire-protection-rated glazing in compliance with ICC (IBC), local building code, and authorities having jurisdiction
 - a. "D" - meets fire door assembly criteria of NFPA 252, UL 10B, or UL 10C fire test standards.
 - b. "OH" - meets fire window assembly criteria including hose stream test of NFPA 257, or UL 9 fire test standards.
 - c. "H" - meets fire door assembly hose stream test of NFPA 252, UL 10B, or UL 10C fire tests standards.
 - d. "XXX" - placeholder that represents fire-rating period, in minutes.
 - 7. Products:
 - a. Technical Glass Products; Pilkington Pyrostop 45: www.fireglass.com
 - b. Safti-First SuperLite II-XL 45: safti.com
 - c. Substitutions: See Section 016000.
- D. Type 6 - Fire-Rated Safety Glazing - 20 minute:
 - 1. Applications: Provide this type of glazing in the following locations:
 - a. Glazed lites in doors having a 20 minute fire rating.
 - b. Other locations indicated on the drawings.
 - 2. Manufacturer and Product:
 - a. Technical Glass Products Fireglass20: www.fireglass.com
 - b. Safti-First SuperLite I-W: safti.com: safti.com
 - c. Substitutions: See Section 016000.
 - 3. Fire Rating: 20 minutes, without hose stream test.
 - 4. Type: fire-rated and impact safety-rated glazing material.
 - 5. Thickness: 1/4 inch (6 mm).
 - 6. Impact safety rating: ANSI Z97.1 and CPSC 16CFR1201 (Cat I and II)
 - 7. Glazing Method: As required for fire rating.

2.06 GLAZING COMPOUNDS

- A. Butyl Sealant: Single component; ASTM C920, Grade NS, Class 12-1/2, Uses M and A, Shore A hardness of 10 to 20; black color.

- B. Polysulfide Sealant: Two component; chemical curing, non-sagging type; ASTM C920, Type M, Grade NS, Class 25, Uses M, A, and G; with cured Shore A hardness range of 15 to 25; color as selected.
- C. Silicone Sealant: Single component; neutral curing; capable of water immersion without loss of properties; non-bleeding, non-staining; ASTM C920, Type S, Grade NS, Class 25, Uses M, A, and G; with cured Shore A hardness range of 15 to 25; clear color.

2.07 ACCESSORIES

- A. Setting Blocks: Silicone, with 80 to 90 Shore A durometer hardness; ASTM C864 Option II. Length of 0.1 inch for each square foot of glazing or minimum 4 inch by width of glazing rabbet space minus 1/16 inch by height to suit glazing method and pane weight and area.
- B. Spacer Shims: Neoprene, 50 to 60 Shore A durometer hardness; ASTM C864 Option II. Minimum 3 inch long by one half the height of the glazing stop by thickness to suit application, self adhesive on one face.
- C. Glazing Tape, Back Bedding Mastic Type: Preformed, butyl-based, 100 percent solids compound with integral resilient spacer rod applicable to application indicated; 5 to 30 cured Shore A durometer hardness; coiled on release paper; black color.
 - 1. Width: As required for application.
 - 2. Thickness: As required for application.
- D. Glazing Gaskets: Resilient silicone extruded shape to suit glazing channel retaining slot; color black.

PART 3 EXECUTION

3.01 VERIFICATION OF CONDITIONS

- A. Verify that openings for glazing are correctly sized and within tolerances, including those for size, squareness, and offsets at corners.
- B. Verify that surfaces of glazing channels or recesses are clean, free of obstructions that may impede moisture movement, weeps are clear, and support framing is ready to receive glazing system.
- C. Verify that sealing between joints of glass framing members has been completed effectively.
- D. Proceed with glazing system installation only after unsatisfactory conditions have been corrected.

3.02 PREPARATION

- A. Clean contact surfaces with appropriate solvent and wipe dry immediately before glazing. Remove coatings that are not tightly bonded to substrates.
- B. Seal porous glazing channels or recesses with substrate compatible primer or sealer.
- C. Prime surfaces scheduled to receive sealant where required for proper sealant adhesion.

3.03 INSTALLATION, GENERAL

- A. Install glazing in compliance with written instructions of glass, gaskets, and other glazing material manufacturers, unless more stringent requirements are indicated, including those in glazing referenced standards.
- B. Install glazing sealants in accordance with ASTM C1193, GANA (SM), and manufacturer's instructions.
- C. Do not exceed edge pressures around perimeter of glass lites as stipulated by glass manufacturer.

- D. Set glass lites of system with uniform pattern, draw, bow, and similar characteristics.
- E. Set glass lites in proper orientation so that coatings face exterior or interior as indicated.
- F. Prevent glass from contact with any contaminating substances that may be the result of construction operations such as, and not limited to the following; weld splatter, fire-safing, plastering, mortar droppings, etc.

3.04 INSTALLATION - DRY GLAZING METHOD (GASKET GLAZING)

- A. Application - Exterior and/or Interior Glazed: Set glazing infills from either the exterior or the interior of the building.
- B. Place setting blocks at 1/4 points with edge block no more than 6 inch from corners.
- C. Rest glazing on setting blocks and push against fixed stop with sufficient pressure on gasket to attain full contact.
- D. Install removable stops without displacing glazing gasket; exert pressure for full continuous contact.

3.05 INSTALLATION - PRESSURE GLAZED SYSTEMS

- A. Application - Exterior Glazed: Set glazing infills from exterior side of building.
- B. Place setting blocks at 1/4 points with edge block no more than 6 inch from corners.
- C. Rest glazing on setting blocks and push against fixed stop with sufficient pressure on gasket to attain full contact.
- D. Install pressure plates without displacing glazing gasket; exert pressure for full continuous contact.
- E. Install cover plate.

3.06 FIELD QUALITY CONTROL

- A. Glass and Glazing product manufacturers to provide field surveillance of the installation of their products.
- B. Monitor and report installation procedures and unacceptable conditions.

3.07 CLEANING

- A. Remove excess glazing materials from finish surfaces immediately after application using solvents or cleaners recommended by manufacturers.
- B. Remove non-permanent labels immediately after glazing installation is complete.
- C. Clean glass and adjacent surfaces after sealants are fully cured.
- D. Clean glass on both exposed surfaces not more than 4 days prior to Date of Substantial Completion in accordance with glass manufacturer's written recommendations.

3.08 PROTECTION

- A. Remove and replace glass that is damaged during construction period prior to Date of Substantial Completion.

END OF SECTION